



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

MSC-02576

EARTH RESOURCES  
RESEARCH DATA FACILITY  
INDEX

(THIS ISSUE SUPERSEDES  
ALL PREVIOUS ISSUES)

N71-12199

FACILITY FORM 602

(ACCESSION NUMBER)

419

(PAGES)

Tmx-66487

(NASA CR OR TMX OR AD NUMBER)

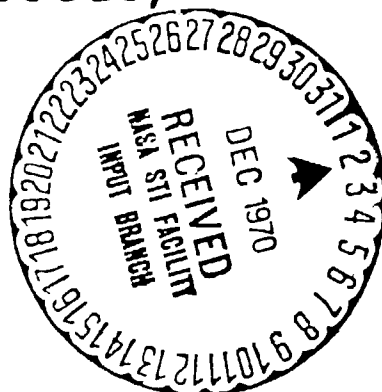
(THRU)

G3

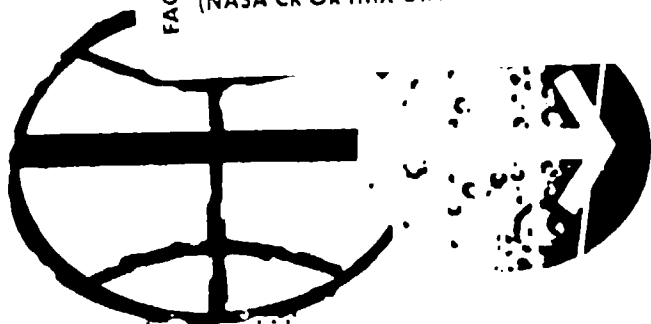
(CODE)

13

(CATEGORY)



MANNED SPACECRAFT CENTER  
HOUSTON, TEXAS  
JULY 1970



## PREFACE

This document is the cumulative issue of the Earth Resources Research Data Facility (ERRDF) Index. The next cumulative issue will be published in December 1970.

This document lists all Earth Resources Program information and related data that is available at the National Aeronautics and Space Administration's Manned Spacecraft Center. Included in the Index are data collected during flights over test sites and from studies made by investigators supporting the Earth Resources Survey Program.

The information cataloged in this document is divided into four major categories as follows:

1. Technical documents and maps
2. Functional and check out data
3. Imagery data
4. Electronic data

The method for assigning accession numbers to the technical data is shown on the following pages. All requests for information concerning this Index should be directed to:

Edward O. Zeitler  
Earth Resources Research Data Facility/TF12  
National Aeronautics and Space Administration  
Manned Spacecraft Center  
Houston, Texas 77058

#### EDITOR'S NOTES

The ERRDF at the Manned Spacecraft Center has arranged for users to visit the facility or order the desired information by written requests. The facility is open to all persons interested in reviewing data listed in the Index. Although the facility does not function as a lending or distributive source, personnel are available to assist the visitor in determining where he may purchase desired data. If you are unable to visit the facility, you may purchase documents (\$3.00 for hard copy and \$0.65 on microfiche) listed in the index in categories 05, 07, 08, and 09 from:

Clearinghouse for Federal Scientific  
and Technical Information  
Port Royal Road  
Springfield, Virginia 22151

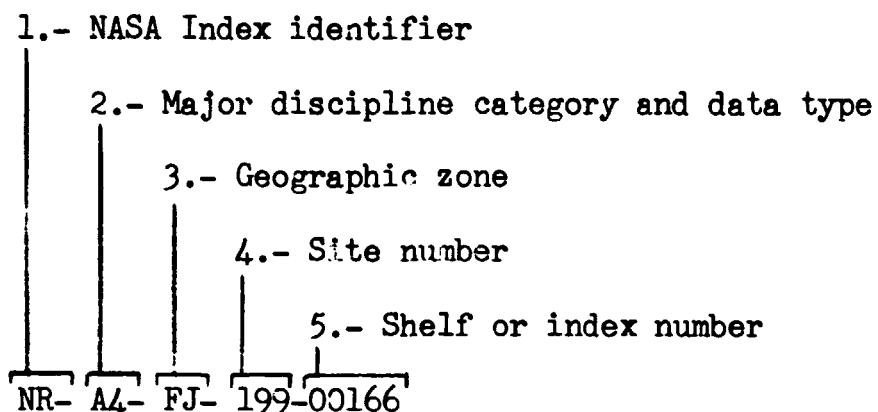
Gemini and Apollo photographs of the earth may be purchased from:

Technology Application Center  
University of New Mexico  
Albuquerque, New Mexico 87106

Plans are being finalized to enable the Data Facility to sell film data resulting from the aircraft missions.

Visitors to the facility are registered at the receiving desk as to name, organization, and principal subject interest. An index of information is available for examination in the ERRDF or through written requests. For convenience, data types bearing similar relationships are grouped together in the index.

Each data item in the Earth Resources Research Data Facility (ERRDF) has its own accession number which can be used in requesting data from the index. The accession number is structured to yield such information as major subject or discipline, specific data type, geographic location, site number, and the shelf or index number. This number identifies each unit of data for retrieving data requested from the files. An example of an accession number and its elements is shown in the following figure.



# 1. NR

The first field of the accession number is a double letter code which distinguishes this index (Natural Resources) from other NASA indexes.

# 2. Major discipline and data type

The second field contains a double-digit code which identifies the specific data type under consideration. Documentary data is denoted by an upper case alpha plus the numeric. Other data types (imagery and nonimagery et cetera) are indicated by a double numeric.

In the case of documentary information, the first alpha digit identifies nine major subject categories as shown below:

- A - Agriculture
- B - Cartography
- C - Forestry
- D - Geography
- E - Geology
- F - Hydrology
- G - Oceanography
- H - Multi-discipline and other sciences
- P - Earth Observations Program documents



The second digit is a numeric which designates one of nine specific data types as follows:

1. Site Maps
2. Site Description
3. Mission Request
4. Mission Screening and Summary Reports
5. Technical Letter
6. Progress Report
7. Summary Report
8. Subject Related Document
9. Technical Report

In addition to the nine document data types, described above, double-digit numeric indicators have been provided for the following data types:

- 10 Inflight Records (charts, graphs, et cetera)
- 11 to 19 Reserved for future data types
- 20 to 49 Imagery data (see page v for a list of specific sensor types)
  - 50 Gemini Photography
  - 51 Apollo Photography
- 52 to 74 Reserved for spacecraft data types
  - 75 Electronic Data (Magnetic Taped). See page vi for non-imaging sensors.
  - 76 Processed Electronic Data

CODE 20-49 IMAGERY SENSOR DATA TYPES

<u>CODE NO.</u>	<u>SENSOR</u>
20	Multiband Camera (Itek - 9 Lens)
21	RS-14 Dual Channel IR Scanner (Texas Instruments)
22	RC-8 Camera (Wild-Heerbrugg)
23	Reconofax IV IR Scanner (HRB Singer)
24	AAS-5 UV Camera (HRB Singer)
25	Nikon Data Panel K-17 Camera (Chicago Aerial)
26	T-11 Camera (Fairchild)
27	APS Camera (Maurer)
28	IR Radiometer Scanner (Block Engineering Co.)
29	RS7 IR Scanner (Texas Instruments)
30	K-17 Metric Camera (Chicago Aerial)
31	Hasselblad Camera - 6-inch focal length
32	Reserved
33	APQ-97 SLAR (Westinghouse)
34	Reconofax IV Camera (HRB Singer)
35	Zeiss RMK 30/23 Camera - 12-inch focal length
36	Hasselblad Cluster Camera A
37	Hasselblad Cluster Camera B
38	Hasselblad Cluster Camera C
39	Hasselblad Cluster Camera D
40	Hasselblad Cluster Camera E

CODE NO.

SENSOR

41	Hasselblad Cluster Camera F
42	Reserved
43	Reserved
44	Reserved
45	DPD-2 SLAR (Philco-Ford)
46	KA-62 Cluster Camera A (Chicago Aerial)
47	KA-62 Cluster Camera B (Chicago Aerial)
48	KA-62 Cluster Camera C (Chicago Aerial)
49	KA-62 Cluster Camera D (Chicago Aerial)

CODE 76 NON-IMAGERY SENSOR TYPES

SENSOR

Liquid Water Content Indicator (Johnson-Williams Co.)

Dewpoint Hygrometer (Cambridge Systems)

Multifrequency Microwave Radiometer (MFMR) - (Space General Corp.)

IR Rapid Scan Spectrometer (Lockheed Aero. Corp.)

Precision Radiation Thermometer (PRT-5) - (Barnes Engineering Corp.)

IR Radiometer (Block Engineering Corp.)

Total Air Temperature Probe (Rosemont Engineering Co.)

Multispectral Scanner-24 Channel (Bendix)

.400 GH<sub>z</sub> Scatterometer-DP (Emerson Corp.)

13.3 GH<sub>z</sub> Scatterometer-SP (Ryan Aero. Corp.)

SENSOR

13.3 GHz Scatterometer-DP (Ryan Aero. Corp.)

1.6 GHz Scatterometer-DP (Ryan Aero. Corp.)

### 3. Geographic Zone

The third field contains a double-digit alpha code which indicates the general geographic zone in which the data were collected. The ERRDF geographic reference system is similar to the World Geographic Reference System (GEOREF) which is described on page xiii. This system divides the earth's surface into 15 degree quadrangles of latitude and longitude. Letters are assigned each 15 degree-division of longitude, extending eastward 360 degrees from the 180th meridian and also for each 15 degree division of latitude extending 180 degrees northward from the south pole. The appropriate letters for each division are shown on a Earth Zone Map on page ix. Quadrangles covering areas within the United States are shown on the U.S. Zone Map on page x.

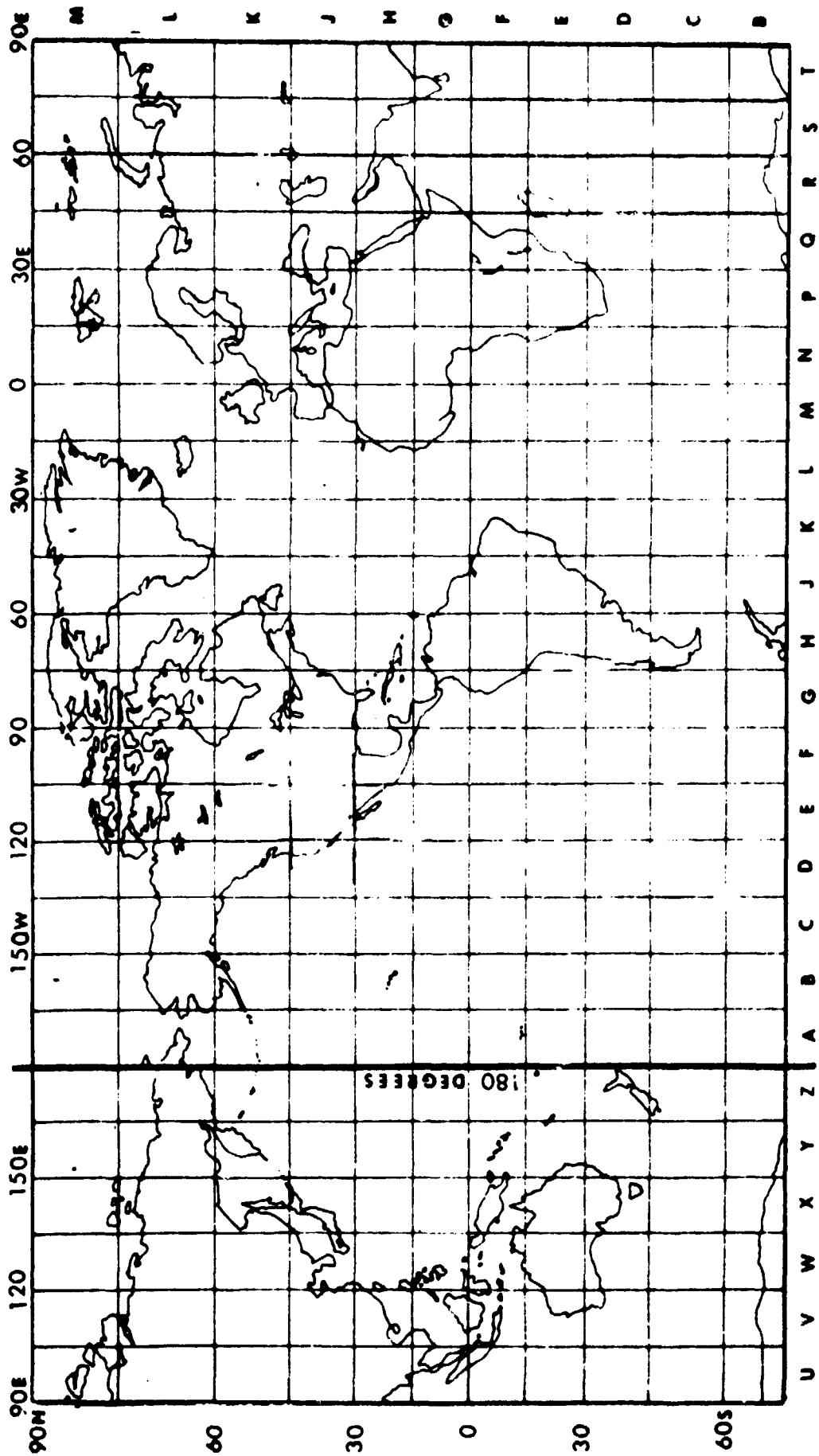
The initial letter indicates the approximate longitude and the second letter indicates the approximate latitude. For example the zone designated "GJ" indicates that the general geographic area for a given data type is located in the eastern half of the United States. The first letter indicates the approximate longitude, the second letter indicates the approximate latitude. If more than one zone is overflowed the data are classified in the zone of greatest coverage. The numerals "00" are used when zoning is not appropriate.

### 4. Site Numbers

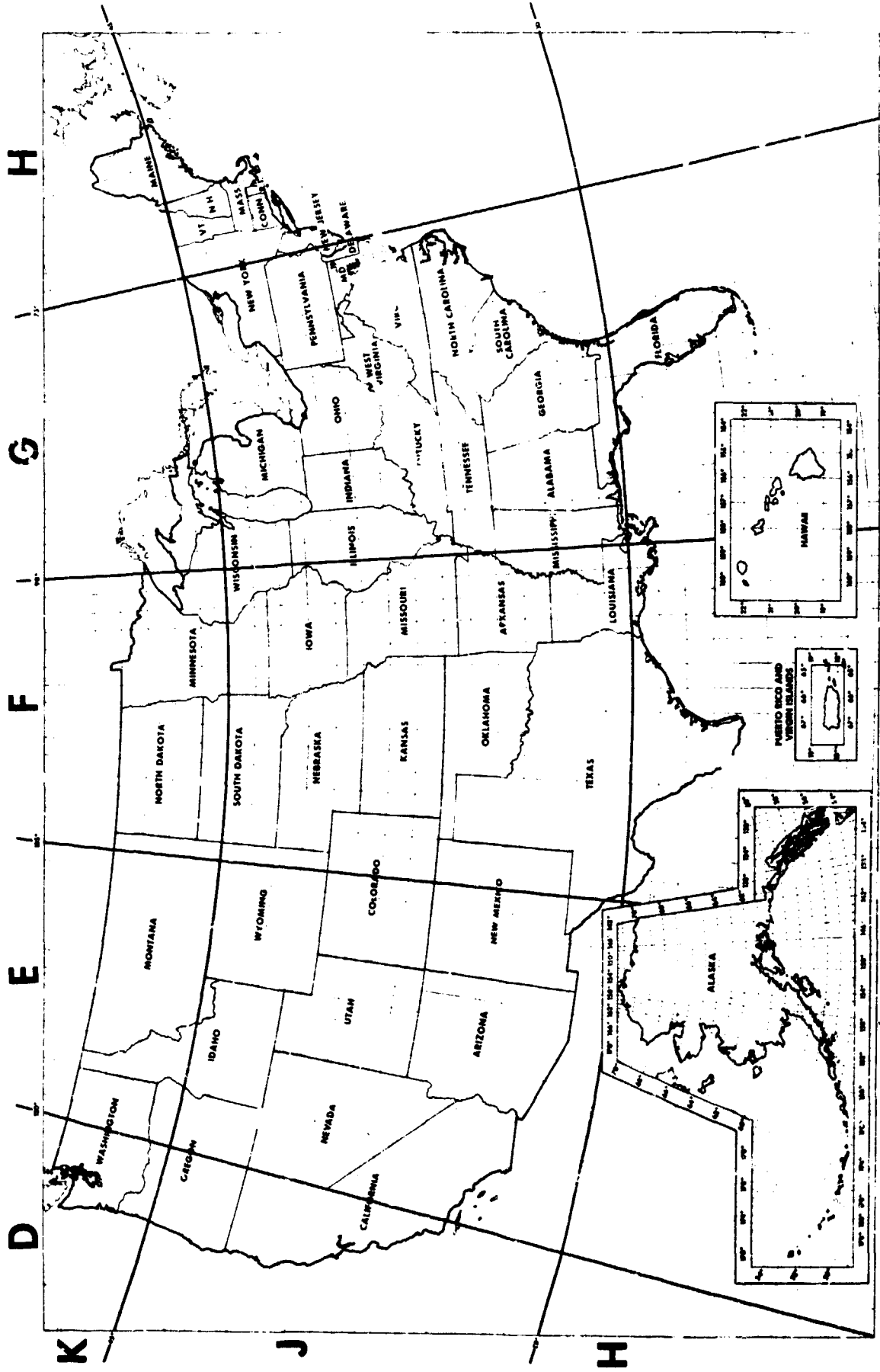
Site numbers have been arbitrarily assigned by NASA for areas which have been overflowed and are indicated by a three-digit code in the fourth field of the accession number. For the convenience of users numbers covering test sites located within the United States are shown on a U.S. Zone Map preceding the index. A world map is also included which shows sites overflowed outside the United States. A list of site numbers, zone indicators, test site titles and major disciplines follows the maps. The code number "998" is used when more than one site is covered by one document or map.

### 5. Bin or File Number

This number is used by the ERRDF to indicate the shelf position in which the data is stored and to locate or retrieve the data when needed. All entries in the index are arranged under separate sections according to discipline and data type or sensor type. An example of a typical entry is shown in the following figure.



EARTH ZONE MAP



U.S. ZONE MAP

Geology	
	Technical Letter
NR-E5-EJ-002-00007	U.S. Geological Survey, Technical
	Letter NASA-7. Topographic studies
Test Site	
Geographic Reference	of Pisgah Crater, California,
	R. E. Altenhofen USGS, Menlo
	Park, California, J. K. Oman and
	T. M. Sousa USGS, Washington, D.C.
	June 25, 1965, Contract No. R-146.

Information extracted from the above annotation establishes this entry as a document in the Geological discipline and is a technical letter concerning NASA Test Site 2 located within the "EJ" 15-degree quadrangle which covers the western portion of the United States.

Similarly the accession number -

NR-34-EJ-075-00037
Test Site
Geographic Reference
Reconofax IV Sensor

indicates that the data contains Reconofax IV imagery over Test Site 75 - Goldfield, Nevada which is located within the EJ 15-degree quadrangle covering the western portion of the U.S.

When the requestors area of interest has been determined, data-research personnel at the ERRDF will assist as needed in providing the appropriate information and answering questions.

Documents, photographs, and maps are available to visitors for examination and viewing. After deciding which information will be needed, source information concerning its availability will be provided.



Computer searches can be made according to the geographical zone, the test site, personal and corporate authors, missions, and subject descriptors, or any combination of these classifications when more specific information is desired.

Information may also be scanned on microfilm viewers in a viewing area.

In an effort to improve the utility of this document for meeting the needs of users we have included a questionnaire following the index. Your comments and the return of this form will be appreciated.

## GEOREF-WORLD GEOGRAPHIC REFERENCE SYSTEM

The Earth Resources Research Data Facility World Geographic Reference system is similar to the World Geographic Reference System (GEOREF) described in A. F. Manual 51-40, Vol. I, Air Navigation, pages 3-34 through 3-38.

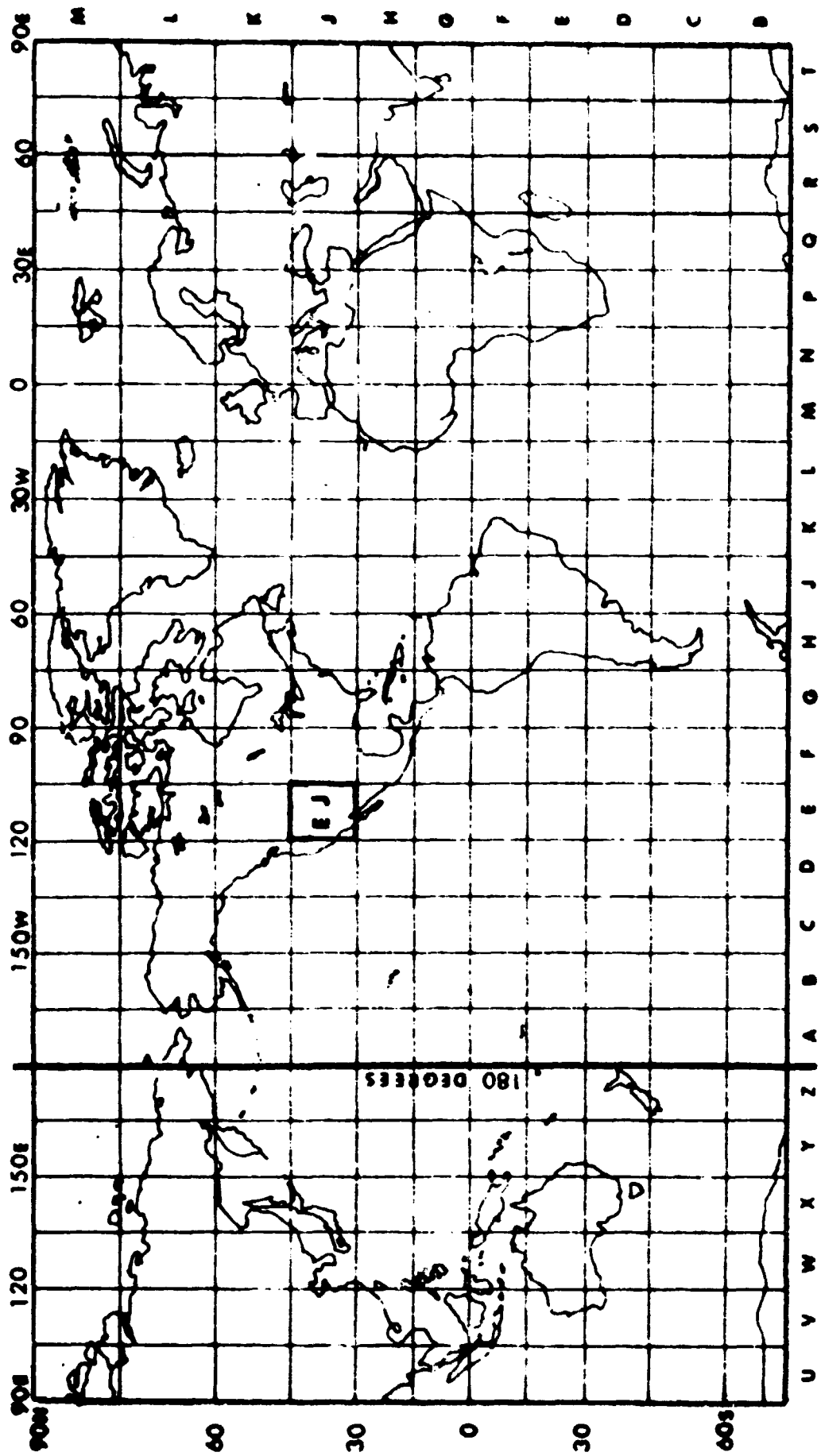
The GEOREF is based on the normal geographic longitude and latitude projection lines of any specific chart, and defines a unit of geographic area in which a specific point lies. The GEOREF divides the earth's surface into 15 degree quadrangles of longitude and latitude with the point of origin at the 180th meridian and the South Pole (see Earth Zone Map, page xiv). The divisions extend eastward 360 degrees from the 180th meridian with each component zone of these divisions identified by a letter from A through Z, omitting I and O, and extends northward 180 degrees from the South Pole with the zones lettered from A through M, omitting I. This combination divides the earth's surface into 288 basic 15 degree quadrangles, each having 2 letters identifying the zone of longitude and latitude.

Each such basic 15 degree quadrangle (see GEOREF 15 degree square sample quadrangle, page xv) is further divided into 15 lettered 1-degree units eastward and 15 lettered 1-degree units northward. These 1 degree quadrangles are lettered from A through Q, omitting I and O.

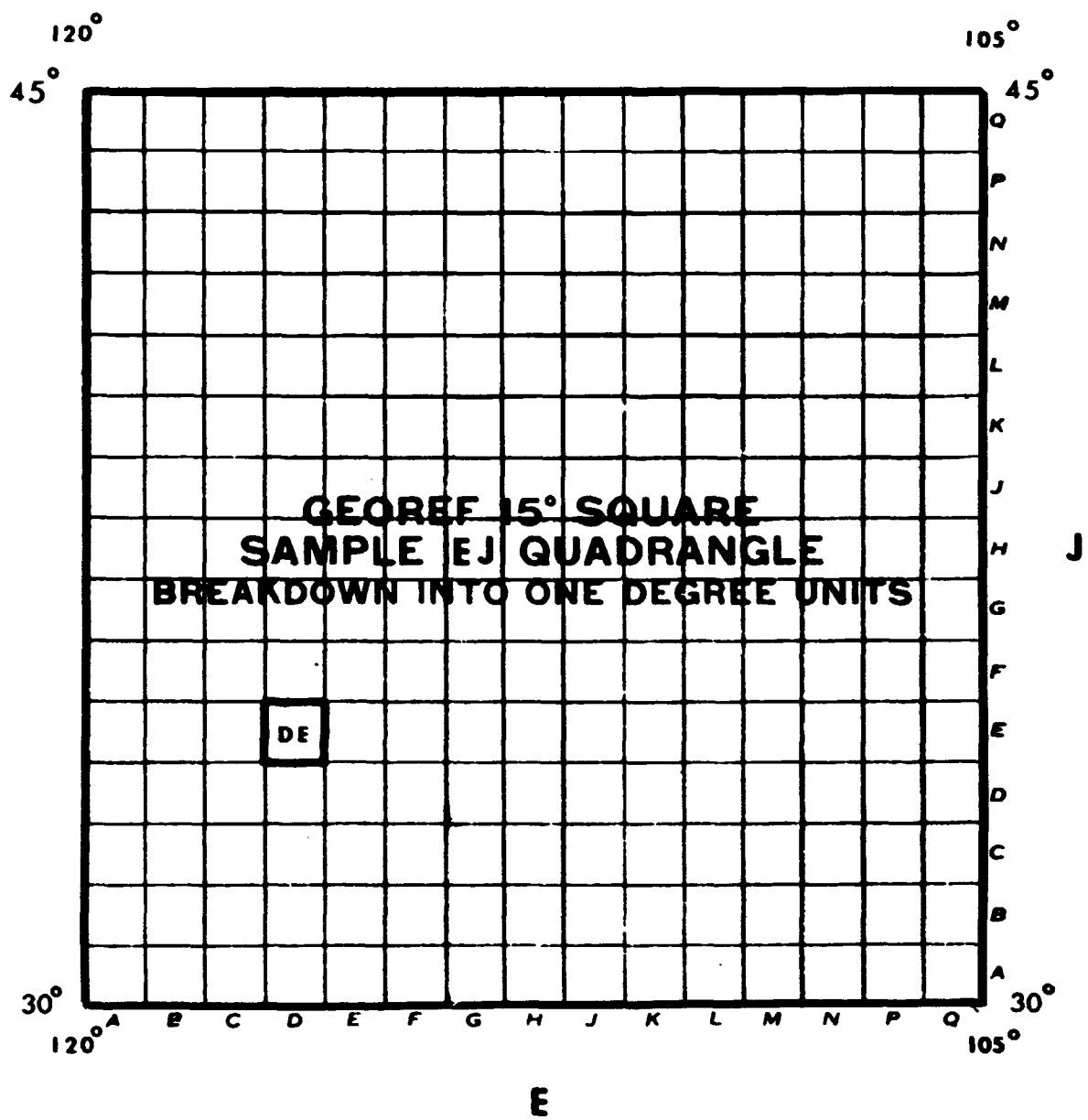
As an example, within a one degree square quadrangle, the geographical location of Site 002 (Pisgah Crater, California) the coordinates of which are 116 degrees 16 minutes to 116 degrees 34 minutes west longitude and 34 degrees 35 minutes to 34 degrees 50 minutes north latitude is completely described by the four letters EJDE and located as follows:

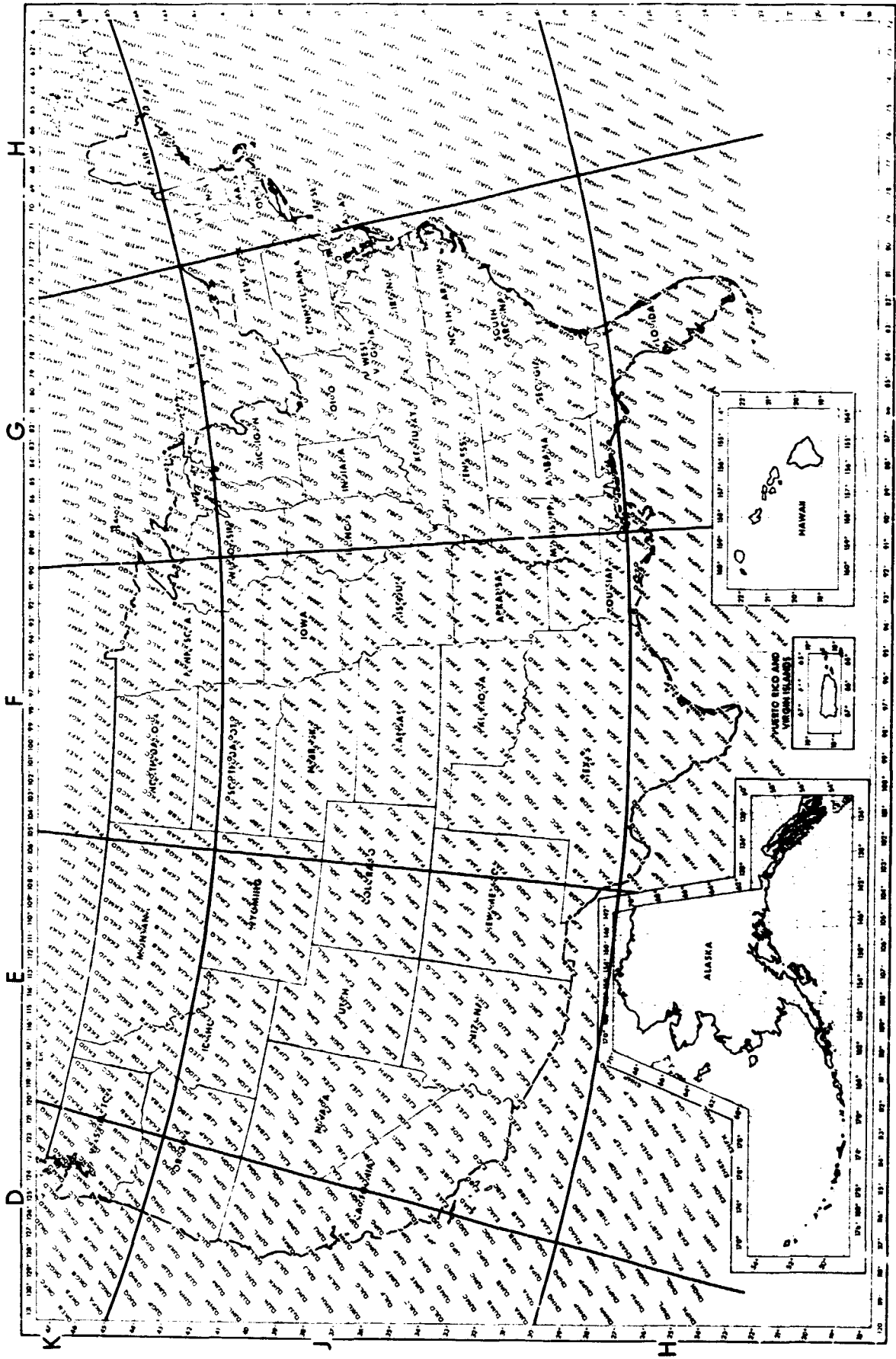
1. On the Earth Zone Map, locate the 15 degree quadrangle "EJ" by reading right to "E" and up to "J".
2. On the GEOREF 15 Degree Square Sample Quadrangle, locate the 1 degree quadrangle "DE" with the sample "EJ" 15 degree quadrangle by reading right to "D" and up to "E".

By the use of this method and assigning the appropriate four letter designators for each 1-degree-square covered, all available photography and other documented information on any specific geographical area can be readily indexed and speedily retrieved by the 4-letter combinations. The first two letters of each 4-letter combination which locate the specific 15 degree zone quadrangle are also a part of all associated document accession numbers. A map showing the location of each 1-degree quadrangle is included on the page xvi.



EARTH ZONE MAP

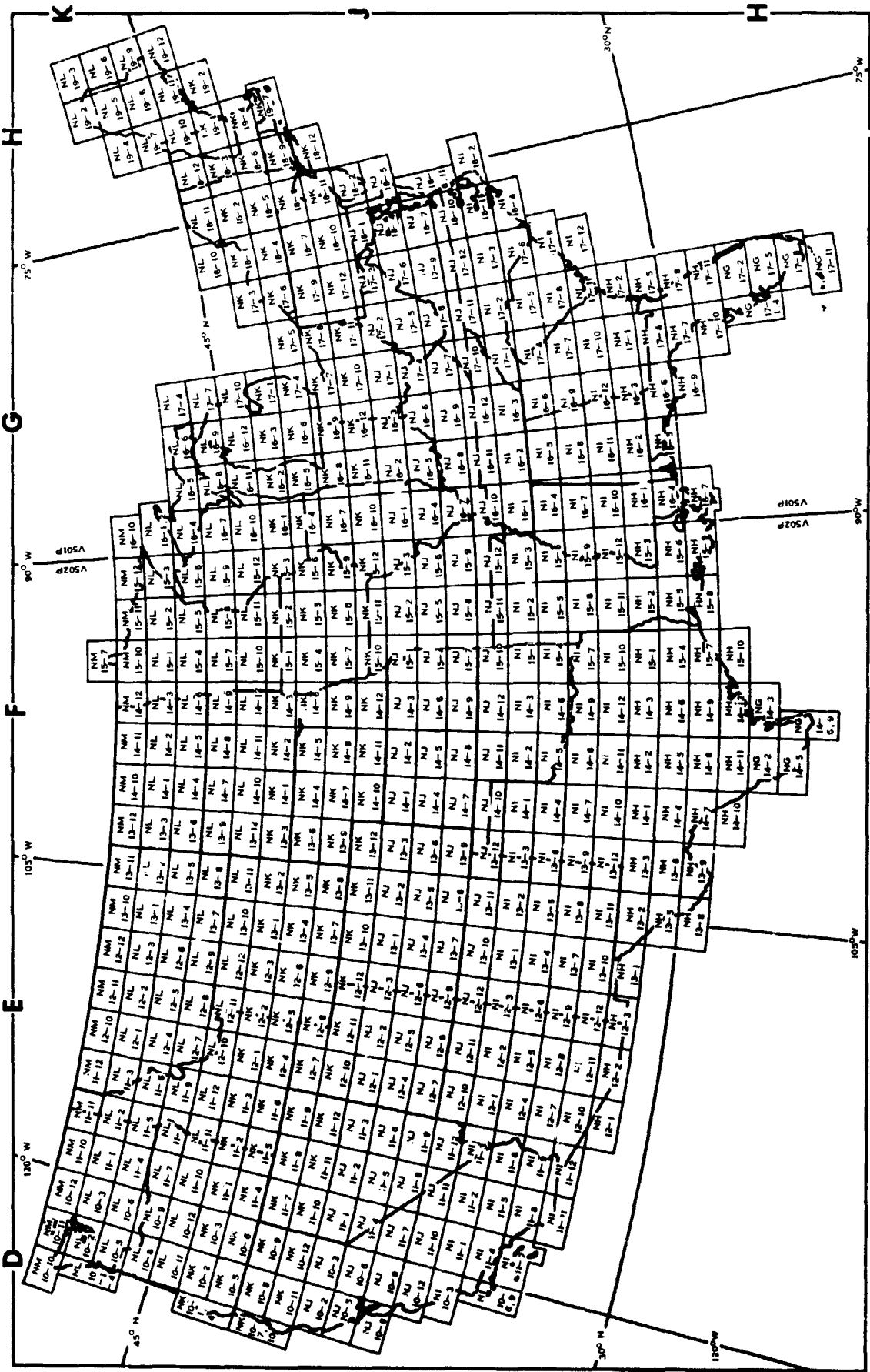




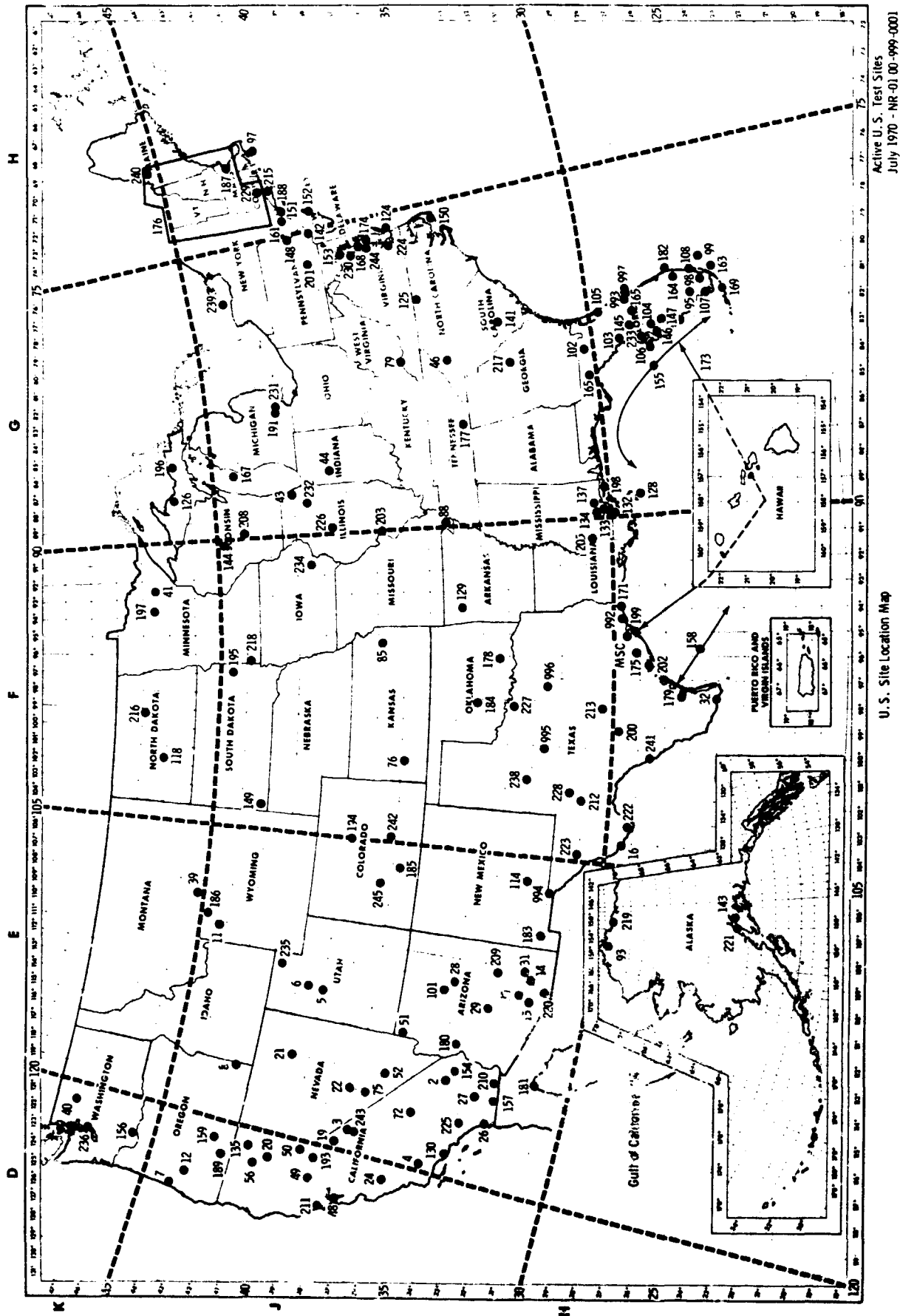
U.S. 1 - DEGREE GEOREF QUADRANGLE LOCATION MAP

In addition to retrieving data by GEOREF all data coverage can be located in the United States and can be retrieved by test quadrant number. The Test Quadrant number corresponds to the Army Map Service number shown on page xviii.

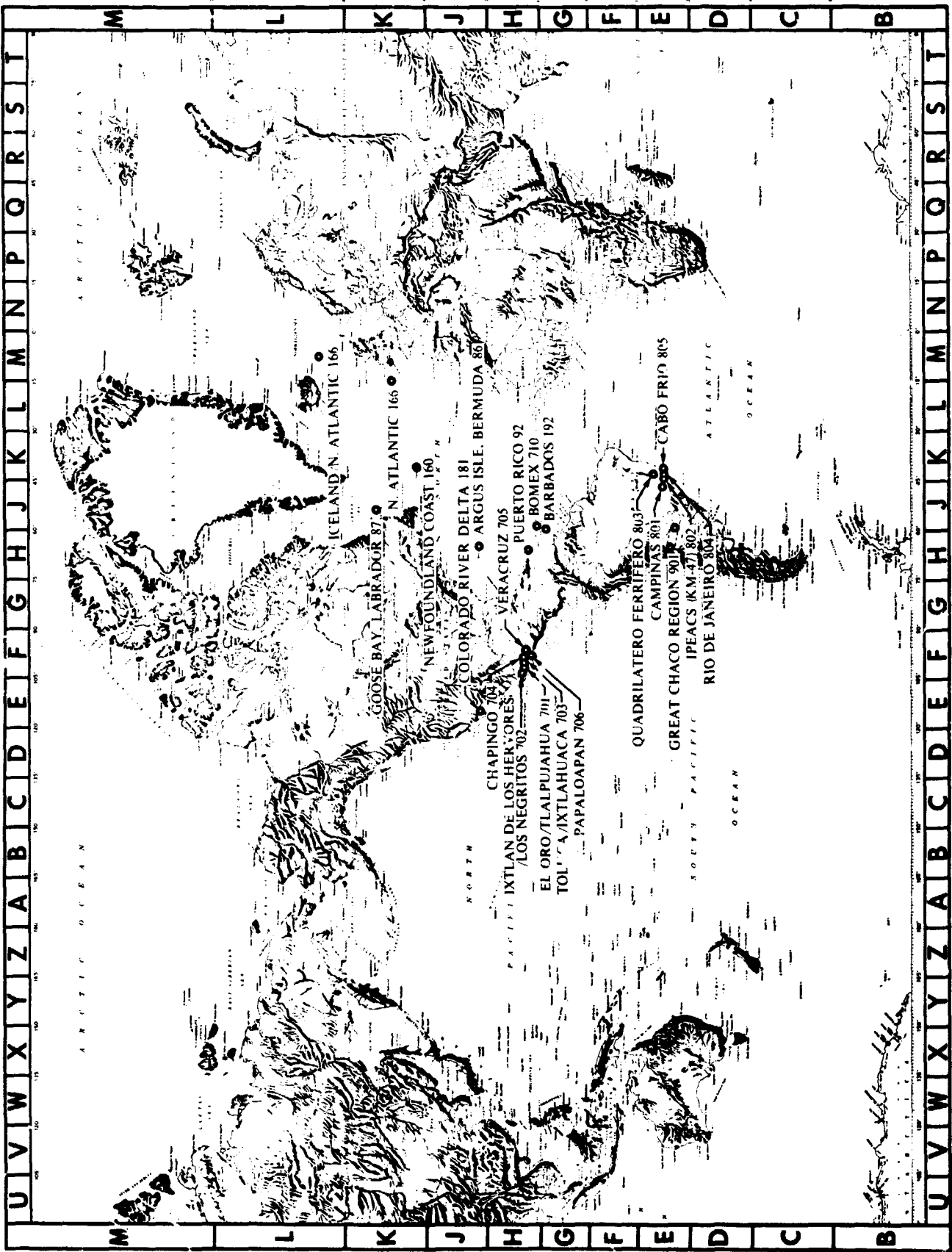
As an example NH15-7 covers from  $94^{\circ}$  N to  $96^{\circ}$  W longitude and from  $29^{\circ}$  N to  $30^{\circ}$  N latitude which is the Houston, Galveston Bay Area.



INDEX TO U.S. 1:25000 MAPS







JULY 1970 - NR-01 00-999-0003

ACTIVE TEST SITES OUTSIDE THE U.S.

SITE ZONE		TEST SITE NAME
001	EJ	CEDAR CITY (IRON SPRINGS), UTAH
002	EJ	PISGAH CRATER, CALIFORNIA
003	EJ	MONO CRATERS, CALIFORNIA
004	EJ	CARRIZO PLAIN, CALIFORNIA
005	EJ	EUREKA (TINTIC DISTRICT), UTAH
006	EJ	SALT LAKE (SALT LAKE DISTRICT), UTAH
007	DJ	COAST RANGE, OREGON/WASHINGTON
008	EJ	SOUTH OREGON STRIP, OREGON
009	EJ	SAN FRANCISCO DISTRICT, UTAH
010	EJ	CARSON CITY (COMSTOCK DISTRICT), NEVADA
011	EJ	YELLOWSTONE NATIONAL PARK, WYOMING/ MONTANA/IDAHO
012	DJ	CRATER LAKE, OREGON
013	EJ	SILVER CITY (CENTRAL DISTRICT), NEW MEXICO
014	EJ	LITTLE DRAGON MOUNTAINS, ARIZONA
015	EJ	TWIN BUTTES (PIMA DISTRICT), ARIZONA
016	PH	SOLITARIO, TEXAS
017	GJ	BALTIMORE (HARFORD-YORK), MARYLAND/ PENNSYLVANIA
018	GJ	HAGERSTOWN (CENTRAL APPALACHIAN PIEDMONT), MARYLAND/PENNSYLVANIA/VIRGINIA
019	EJ	SONORA PASS, CALIFORNIA
020	DJ	BUCKS LAKE, CALIFORNIA
021	EJ	BATTLE MOUNTAIN (RYE PATCH RESERVOIR/ RUBY MOUNTAINS), NEVADA
022	EJ	TONOPAH, NEVADA
023	DJ	INYO NATIONAL FOREST (WARD MOUNTAIN/ CRATER MOUNTAIN), CALIFORNIA
024	DJ	SAN ANDREAS FAULT, CALIFORNIA
025	EJ	DEVILS PLAYGROUND, CALIFORNIA
026	EJ	SCRIPPS BEACH, CALIFORNIA
027	EJ	SALTON SEA, CALIFORNIA
028	EJ	WINSLOW (METEOR CRATER), ARIZONA
029	EJ	PHOENIX, ARIZONA
030	EJ	TUCSON/AJO, ARIZONA
031	EJ	WILCOX DRY LAKE, ARIZONA
032	PH	WESLACO, TEXAS
033	PH	GUADALUPE RIVER, TEXAS
034	FJ	OUACHITA MOUNTAINS, ARKANSAS/OKLAHOMA
035	FJ	WICHITA, KANSAS
036	FJ	SPANISH PEAKS, COLORADO
037	EJ	OURAY (SILVERTON/CREEDE DISTRICT AND SAN JUAN 20 QUADRANT), COLORADO
038	EJ	GREAT SAGE PLAIN (LISBON VALLEY), UTAH/ COLORADO

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TEST SITE

SITE ZONE

NAME

039	EK	EASTERN BEAR TOOTH MOUNTAINS, WYOMING/ MONTANA
040	JK	CASCADE MOUNTAINS (CASCADE GLACIER SITE), WASHINGTON
041	FK	MESABI RANGE, MINNESOTA
042	FK	OTTAWA NATIONAL FOREST (GOGEBIC RANGE), MICHIGAN
043	GJ	CHICAGO, ILLINOIS
044	GJ	PURDUE, INDIANA
045	GJ	ORANGE, VIRGINIA
046	GJ	ASHEVILLE, NORTH CAROLINA
047	GJ	MYRTLE BEACH, SOUTH CAROLINA
048	DJ	SAN PABLO RESERVOIR, CALIFORNIA
049	DJ	DAVIS, CALIFORNIA
050	DJ	DONNER PASS, CALIFORNIA
051	EJ	MESQUITE SEDIMENTARY, ARIZONA
052	EJ	NEVADA AEC
053	EJ	SPANISH PEAKS, COLORADO/CEDAR CITY, UTAH
054	EJ	SMOKE CREEK DESERT/HEBER, UTAH
055	EJ	HUMBOLDT BASIN, NEVADA
056	DJ	MT. LASSEN, CALIFORNIA
057	3H	HAWAII
058	EJ	VALLES CALDERA, NEW MEXICO
059	EJ	TOBIN RANGE, NEVADA
060	EJ	DIXIE VALLEY, NEVADA
061	DJ	THE GEYSERS, CALIFORNIA
062	DJ	MT. SHASTA, CALIFORNIA
063	DJ	NEWBERRY CRATERS, OREGON
064	DJ	CENTRAL CASCADE RANGE, OREGON
065	JK	MT. HOOD, OREGON
066	JK	MT. ADAMS, WASHINGTON
067	JK	MT. ST. HELENS, WASHINGTON
068	JK	MT. RAINIER, WASHINGTON
069	JK	MT. BAKER, WASHINGTON
070	HJ	HOPKINTON-MILFORD/TEMPLETON/ORANGE, MASSACHUSETTS
071	EJ	HOPI BUTTES, ARIZONA
072	EJ	COSO HOT SPRINGS, CALIFORNIA
073	EJ	LYNN DISTRICT, NEVADA
074	EJ	BENTON, CALIFORNIA
075	EJ	GOLDFIELD, NEVADA
076	FJ	GARDEN CITY, KANSAS
077	GJ	NORFOLK, VIRGINIA
078	GJ	CLEVELAND COUNTY, NORTH CAROLINA
079	GJ	MATEWAN, KENTUCKY
080	EJ	BIG PINE FAULT, CALIFORNIA

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TEST SITE

SITE ZONE

NAME

081	2J	MT. MORRISON FAULT, CALIFORNIA
082	2J	ALVORD VALLEY, OREGON
083	2J	IRONTON, MISSOURI
084	2J	ALAMOSA, COLORADO
085	2J	LAWRENCE, KANSAS
086	4J	ARGUS ISLE, BERMUDA
087	JK	GOOSE BAY, LABRADOR
088	2J	MISSISSIPPI VALLEY, MISSOURI/TENNESSEE
089	EK	BLACKBIRD DISTRICT, IDAHO
090	EK	ALBERTON, MONTANA
091	2Y	TOBACCO ROOT MOUNTAIN, MONTANA
092	4H	PUERTO RICO
093	3L	PT. BARROW, ALASKA
094	6J	NORTHEAST PENNSYLVANIA (PEAT BOGS)
095	GH	EVERGLADES, FLORIDA
096	2J	DIXIE/FISH LAKE NATIONAL FOREST, UTAH
097	4J	CAPE COD/MARTHA'S VINEYARD, MASSACHUSETTS
098	GH	HOMESTEAD, FLORIDA
099	GH	FLORIDA STRAITS
100	2J	HOT SPRINGS, ARKANSAS
101	2J	SAN FRANCISCO VOLCANIC FIELDS, ARIZONA
102	3J	STATENVILLE, GEORGIA/LAKE CITY, FLORIDA, PHOSPHATE
103	GH	CRYSTAL RIVER, FLORIDA
104	GH	WAUCHULA/TAMPA, FLORIDA
105	GH	CRESCENT BEACH SUBMARINE SPRING, FLORIDA
106	GH	CLEARWATER/NAPLES SUBMARINE SPRING, FLORIDA
107	GH	CAPE SABLE SUBMARINE SPRING, FLORIDA
108	GH	CUTLER AREA SUBMARINE SPRING, FLORIDA
109	2J	SIERRA MADERA, TEXAS
110	EK	CLARK FORK, IDAHO
111	2J	WET MOUNTAIN, COLORADO
112	2J	NORTHEAST RANGE, COLORADO
113	6J	FAYETTEVILLE, NORTH CAROLINA/NEWPORT, TENNESSEE
114	2J	WHITE SANDS, NEW MEXICO
115	2J	NEW MEXICO MINERAL AND STRUCTURAL BELTS
116	2J	GREAT SALT LAKE, UTAH
117	2J	LAKE CACHUMA, CALIFORNIA
118	2K	MISSOURI RIVER, NORTH DAKOTA
119	2J	BUTLER COUNTY, KANSAS
120	2J	LAKE COLORADO CITY, TEXAS
121	GH	EFFLUENTS AND MAJOR RIVERS, LOUISIANA
122	4J	MILLERS RIVER, MASSACHUSETTS

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TEST SITE

SITE ZONE

NAME

123	HJ	MERRIMACK RIVER, MASSACHUSETTS
124	GJ	DELMARVA PENINSULA, DELAWARE/MARYLAND/ VIRGINIA
125	GJ	ROXBORO RESERVOIR, NORTH CAROLINA
126	GK	MARQUETTE/REPUBLIC TROUGHES, MICHIGAN
127	GJ	JOHNSON COUNTY GRAVEL TEST, INDIANA
128	GH	MISSISSIPPI DELTA, LOUISIANA
129	FJ	ARKANSAS BASIN
130	EJ	SOUTHERN CALIFORNIA
132	GH	NEW ORLEANS, LOUISIANA
133	GJ	MICHoud, LOUISIANA
134	GJ	SLIDELL, LOUISIANA
135	JJ	HARVEY VALLEY, CALIFORNIA
136	HJ	NAVY ACRES
137	GJ	MISSISSIPPI TEST FACILITY
138	HJ	GULFSTREAM NORTH
139	EJ	STEAMBOAT SPRINGS, COLORADO
140	EJ	BISHOP, CALIFORNIA
141	GJ	CHARLESTON/COLUMBIA, SOUTH CAROLINA
142	GJ	DELAWARE ESTUARY, PENNSYLVANIA/NEW JERSEY
143	CL	COOK INLET, ALASKA
144	FJ	WISCONSIN SAND PLAINS
145	GH	GULF COAST SPRINGS, FLORIDA
146	GH	ALAFIA AND PEACE RIVERS, FLORIDA
147	GH	LAKES/TAMPA, FLORIDA
148	GJ	LEHIGH RIVER, PENNSYLVANIA
149	FJ	BLACK HILLS, SOUTH DAKOTA
150	GJ	PAMLICO SOUND, NORTH CAROLINA
151	HJ	LONG ISLAND, NEW YORK
152	HJ	BARNEGAT BAY, NEW JERSEY
153	GJ	ANNAPOLIS, MARYLAND
154	EJ	AMBOY CRATER, CALIFORNIA
155	GH	GULF COAST FISHERIES
156	JK	WIND RIVER, WASHINGTON
157	EJ	BORREGO SPRINGS, CALIFORNIA
158	FH	CORPUS CHRISTI, TEXAS/GULF OF MEXICO
159	JJ	HORSEFLY MOUNTAIN, OREGON
160	JK	NEWFOUNDLAND COAST (ARGENTIA)
161	HJ	RARITAN RIVER, NEW JERSEY
162	GH	BAHAMA BANKS, FLORIDA
163	GH	BISCAYNE BAY, FLORIDA
164	GH	BOCA RATON/BELLE GLADE, FLORIDA

RPT-M36-01-007C

TEST SITE

SITE ZONE

NAME

165	GJ	DESERET/ST. MARKS, FLORIDA
166	LL	ICELAND, NORTH ATLANTIC
167	GJ	LAKE MICHIGAN
168	GJ	PATUXENT RIVER, MARYLAND
169	GH	FLORIDA KEYS
170	EJ	SHEEP MOUNTAIN, WYOMING
171	FH	SABINE LAKE ESTUARY, TEXAS/LOUISIANA
172	GH	YUCATAN PENINSULA, MEXICO
173	GH	GULF LOOP
174	GJ	WALLOPS ISLAND VIRGINIA
175	FH	HOUSTON, TEXAS, AREA
176	HJ	NEW ENGLAND
177	GJ	TENNESSEE VALLEY
178	FJ	MILL CREEK, OKLAHOMA
179	FH	LAGUNA MADRE AND CORPUS CHRISTI, TEXAS
180	EJ	GARNET MOUNTAIN, ARIZONA
181	EJ	COLORADO RIVER DELTA, MEXICO
182	GH	WEST PALM BEACH, FLORIDA
183	EJ	LORDSBURG, NEW MEXICO
184	FJ	CHICKASHA, OKLAHOMA
185	EJ	BONANZA AREA, COLORADO
186	EJ	CLARK FORK, WYOMING
187	HJ	BOSTON, MASSACHUSETTS
188	HJ	NEW YORK BIGHT
189	DJ	KLAMATH FALLS, OREGON
190	GJ	ANN ARBOR, MICHIGAN
191	GJ	WASHTENAW COUNTY, MICHIGAN
192	JG	BARBADOS
193	DJ	EL DORADO FOREST, CALIFORNIA
194	FJ	DENVER, COLORADO
195	FJ	BROOKINGS, SOUTH DAKOTA
196	GK	GRAND SABLE, MICHIGAN
197	FK	CHIPPEWA NATIONAL FOREST, MINNESOTA
198	GJ	MISSISSIPPI SOUND
199	FH	GALVESTON ISLAND, TEXAS
200	FJ	KERR COUNTY, TEXAS
201	GJ	MECHANICSBURG, PENNSYLVANIA
202	FH	PT. COMFORT, TEXAS
203	FJ	GRANITE CITY, ILLINOIS
204	GJ	BYNAM, ALABAMA
205	FJ	BATON ROUGE, LOUISIANA
206	GJ	MUSCLE SHOALS, ALABAMA

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TEST SITE

SITE ZONE

NAME

207	3K	MOSES LAKE, WASHINGTON
208	GJ	BARABOO, WISCONSIN
209	EJ	FORT APACHE/SAN CARLOS INDIAN RESERVATION, ARIZONA
210	EJ	IMPERIAL VALLEY, CALIFORNIA
211	3J	SAN FRANCISCO BAY AREA, CALIFORNIA
212	FJ	MARATHON, TEXAS
213	FJ	COLORADO RIVER, TEXAS
214	EH	GULF OF CALIFORNIA
215	4J	LONG ISLAND SOUND, NEW YORK
216	FK	JAMESTOWN, NORTH DAKOTA
217	GJ	ATLANTA, GEORGIA
218	FJ	SIOUX FALLS, SOUTH DAKOTA
219	CL	BEAUFORT SEA, ALASKA
220	EJ	FORT HUACHUCA, ARIZONA
221	3K	KATMAI NATIONAL MONUMENT, ALASKA
222	FH	BIG BEND NATIONAL PARK, TEXAS
223	FJ	VAN HORN, TEXAS
224	GJ	JAMES RIVER, VIRGINIA
225	EJ	RIVERSIDE, CALIFORNIA
226	GJ	PEORIA, ILLINOIS
227	FJ	WITCHITA FALLS, TEXAS
228	FJ	MIDLAND, TEXAS
229	4J	NEW HAVEN, CONNECTICUT
230	GJ	WASHINGTON, D.C.
231	GJ	PONTIAC, MICHIGAN
232	GJ	AURORA, ILLINOIS
233	GH	TAMPA, FLORIDA
234	FJ	CEDAR RAPIDS, IOWA
235	EJ	SALT LAKE CITY, UTAH
236	3K	SEATTLE, WASHINGTON
237	4H	VIRGIN ISLANDS
238	FJ	LUBBOCK, TEXAS
239	GJ	LAKE ONTARIO, U.S./CANADA
240	4K	CATHEART MOUNTAIN, MAINE
241	FH	EAGLE PASS, TEXAS
242	FJ	MANITOU, COLORADO
243	EJ	STANISLAUS NATIONAL FOREST, CALIFORNIA
244	3J	CENTRAL ATLANTIC COASTAL AREA
245	EJ	MARBLE, COLORADO
701	FH	EL ORO/TLALPUJAHUA, MEXICO
702	FH	IXTLAN DE LOS HERVORES/LOS NEGRITOS, MEXICO
703	FH	TOLUCA IXTLAHUACA, MEXICO

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TEST SITE

SITE ZONE

NAME

704	FH	CHAPINGO, MEXICO
705	FH	VERACRUZ, MEXICO
706	FH	PALALOAPAN BASIN, MEXICO
707	FH	CUATRO CIENEGAS, MEXICO
708	FH	SAN JOSE DE LAS RUSIAS, MEXICO
710	JH	BOMEX
801	JE	CAMPINAS, BRAZIL
802	KE	IPEACS (KM-47), BRAZIL
803	KE	QUADRILATERO FERRIFERO, BRAZIL
804	KE	RIO DE JANEIRO, BRAZIL
805	KE	CABO FRIO, BRAZIL
901	HE	GREAT CHACO REGION, ARGENTINA
992	FH	FIREANT, (TEXAS)
993	GH	TITUSVILLE, FLORIDA
994	EJ	EL PASO, TEXAS
995	FJ	ANSON/SNYDER, TEXAS
996	FJ	DALLAS/FT. WORTH, TEXAS
997	GH	CAPE KENNEDY, FLORIDA





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Section 7 - Summary Reports - Geology

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Section 45 - DPD-2 SLAR (Philco-Ford)  
Section 46 - KA-62A Camera (Chicago Aerial)  
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## **PART I - TECHNICAL DOCUMENTS AND MAPS**

**AGRICULTURE**



**AGRICULTURE**  
**SECTION 01 - SITE MAPS**

## SITE MAPS - AGRICULTURE

ACCESSION NUMBER	LOCATION	TYPE	SIZE
VR-A1-DJ-007-00007	SITE 007-COAST RANGE, CRE./WASH.	DETAIL	17 x 20
VR-A1-DJ-007-00093	SITE 007-COAST RANGE, CRE./WASH.	REGIONAL	17 x 22
VR-A1-DJ-007-00094	SITE 007-COAST RANGE, CRE./WASH.	REGIONAL	17 x 22
VR-A1-DJ-007-00095	SITE 007-COAST RANGE, CRE./WASH.	REGIONAL	17 x 22
VR-A1-DJ-007-00096	SITE 007-COAST RANGE, CRE./WASH.	REGIONAL	17 x 22
VR-A1-DJ-007-00097	SITE 007-COAST RANGE, CRE./WASH.	REGIONAL	17 x 22
VR-A1-DJ-020-00037	SITE 020-BUCKS LAKE, CALIF.	DETAIL	17 x 22
VR-A1-DJ-020-00113	SITE 020-BUCKS LAKE, CALIFORNIA	REGIONAL	17 x 22
VR-A1-FH-032-00018	SITE 032-WESLACO, TEX.	REGIONAL	17 x 22
VR-A1-FH-032-00052	SITE 032-WESLACO, TEX.	DETAIL	17 x 22
VR-A1-FH-032-00070	SITE 032-WESLACO, TEXAS	REGIONAL	17 x 22
VR-A1-FH-032-00131	SITE 032-WESLACO, TEXAS	REGIONAL	17 x 22
VR-A1-FH-032-00135	SITE 032-WESLACO, TEXAS	REGIONAL	17 x 22
VR-A1-FH-032-00178	SITE 032-WESLACO, TEXAS	REGIONAL	17 x 22
VR-A1-GJ-044-00076	SITE 044-PURDUE, INDIANA	REGIONAL	17 x 22
VR-A1-GJ-044-00088	SITE 044-PURDUE, INDIANA	REGIONAL	17 x 22
VR-A1-GJ-044-00163	SITE 044-PURDUE, INDIANA	REGIONAL	17 x 22
VR-A1-GJ-044-00179	SITE 044-PURDUE, INDIANA	REGIONAL	17 x 22
VR-A1-GJ-044-00183	SITE 044-PURDUE, INDIANA	REGIONAL	17 x 22
VR-A1-DJ-048-00098	SITE 048-SAN PABLO RESERVOIR, CALIF.	REGIONAL	17 x 22
VR-A1-DJ-048-00170	SITE 048-SAN PABLO RESERVOIR, CALIF.	REGIONAL	17 x 22
VR-A1-FJ-076-00033	SITE 076-GARDEN CITY, KANSAS	REGIONAL	17 x 22

## SITE MAPS - AGRICULTURE

ACCESSION NUMBER	LOCATION	TYPE	SIZE
VR-A1-FJ-076-00087	SITE 076-GARDEN CITY, KANSAS	REGIONAL	17 x 22
VR-A1-FJ-076-00125	SITE 076-GARDEN CITY, KANSAS	REGIONAL	17 x 22
VR-A1-FJ-076-00175	SITE 076-GARDEN CITY, KANSAS	REGIONAL	17 x 22
VR-A1-FJ-076-00184	SITE 076-GARDEN CITY, KANSAS	REGIONAL	17 x 22
VR-A1-FJ-076-00201	SITE 074-GARDEN CITY, KANSAS	REGIONAL	17 x 22
VR-A1-JJ-135-00040	SITE 135-HARVEY VALLEY, CALIF.	DETAIL	17 x 22
VR-A1-JJ-135-00111	SITE 135-HARVEY VALLEY, CALIFORNIA	REGIONAL	17 x 22
VR-A1-JK-156-00100	SITE 156-WIND RIVER, WASHINGTON	REGIONAL	17 x 22
VR-A1-JK-156-00101	SITE 156-WIND RIVER, WASHINGTON	REGIONAL	17 x 22
VR-A1-JK-156-00102	SITE 156-WIND RIVER, WASHINGTON	REGIONAL	17 x 22
VR-A1-JK-156-00112	SITE 156-WIND RIVER, WASHINGTON	REGIONAL	17 x 22
VR-A1-JK-156-00186	SITE 156-WIND RIVER, WASHINGTON	REGIONAL	17 x 22
VR-A1-JK-156-00187	SITE 156-WIND RIVER, WASHINGTON	REGIONAL	17 x 22
VR-A1-JK-156-00188	SITE 156-WIND RIVER, WASHINGTON	REGIONAL	17 x 22
VR-A1-JK-156-00189	SITE 156-WIND RIVER, WASHINGTON	REGIONAL	17 x 22
VR-A1-FH-703-00261	SITE 703-TOLUCA, IXTLAHLACA, MEXICO (1) AND (2)	REGIONAL	17 x 22
VR-A1-FH-704-00262	SITE 704-CHAPINGO, MEXICO	REGIONAL	17 x 22
VR-A1-FH-706-00264	SITE 706-PAPALOAPAN BASIN, MEXICO	REGIONAL	17 x 22

## **AGRICULTURE**

### **SECTION 02 - SITE DESCRIPTIONS**

SITE DESCRIPTIONS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
VR-A2-3J-007-00006	SITE 007-COAST RANGE, OREGON/WASHINGTON
VR-A2-3J-008-00055	SITE 008-SOUTH OREGON STRIP, OREGON
VR-A2-3J-044-00025	SITE 044-PURDUE, INDIANA
VR-A2-3J-088-00040	SITE 088-MISSISSIPPI VALLEY, MISSOURI/TENNESSEE
VR-A2-3H-098-00046	SITE 098-HOMESTEAD, FLA.

## **AGRICULTURE**

### **SECTION 04 MISSION SCREENING AND SUMMARY REPORTS**

## MISSION SCREENING AND SUMMARY REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
VR-A4-FH-032-B0016	MISSION NO. 16 SITE 032
VR-A4-FH-032-B0017	MISSION NO. 17 SITE 032
VR-A4-FH-032-B0024	MISSION NO. 24 SITE 032
VR-A4-FH-032-B0027	MISSION NO. 27 SITE 032
VR-A4-FH-032-B0035	MISSION NO. 35 SITE 032
VR-A4-FH-032-B0051	MISSION NOS. 51, 951 SITE 032
VR-A4-GJ-044-B0052	MISSION NO. 52 SITE 044
VR-A4-GJ-998-B0059	MISSION NO. 59 SITES 020, 051, 135, 156, 159
VR-A4-GJ-998-B0062	MISSION NO. 62 SITES 032, 132, 133, 134, 137
VR-A4-FH-032-B0064	MISSION NO. 64 SITE 32.
VR-A4-GH-998-B0075	MISSION NO. 75 SITES 032, 162
VR-A4-GJ-998-B0077	MISSION NO. 77 SITES 044, 076, 148
VR-A4-GH-998-B0081	MISSION NO. 81 SITES 165, 163, 146, 147, 145, 132
VR-A4-EJ-998-B0981	MISSION NO. 981 SITES 030, 175, 181, DALLAS/FT. WORTH, TEXAS ANSON/SNYDER, TEXAS, EL PASO, TEXAS, SAN ANTONIO, TEXAS
VR-A4-FH-998-B0091	MISSION NO. 91, SITES 701, 702, 703, 704, 705, 706.
VR-A4-KE-998-B0096	MISSION NO. 96 SITES 801, 802, 803, 804, 805

## **AGRICULTURE**

### **SECTION 05   TECHNICAL LETTER REPORTS**



TECHNICAL LETTER REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-A5-VK-000-00053	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-53, EVALUATION OF NIMBUS VIDICON PHOTOGRAPHY SOUTHWEST FRANCE AND NORTHEAST SPAIN, EDWARD G. HASSER, U.S.G.S., WASHINGTON, D.C., OCTOBER 1966. CONTRACT NO. R-09-020-011.
NR-A5-EJ-000-00060	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-60, EXTENT OF RELICT SOILS REVEALED BY GEMINI IV PHOTOGRAPHS. HAROLD DREWES AND ROGER MORRISON, U.S.G.S., DENVER, COLORADO, OCTOBER 1966. CONTRACT NO. R-09-020-011.
NR-A5-EJ-140-00063	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-63, PRELIMINARY STUDIES OF SOIL PATTERNS OBSERVED IN RADAR IMAGES, BISHOP AREA, CALIFORNIA, MICHAEL F. SHERIDAN, DEPARTMENT OF GEOLOGY, ARIZONA STATE UNIVERSITY, TEMPE, ARIZONA. NOVEMBER 1966. CONTRACT NO. R-09-020-015, STAR X67-10993.

## **AGRICULTURE**

### **SECTION 07 SUMMARY REPORTS**

SUMMARY REPORTS • AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-A7-GJ-998-00013*	REMOTE MULTISPECTRAL SENSING IN AGRICULTURE, COVERING JAN.-AUG, 1966. J. RALPH SHAY, PURDUE UNIVERSITY, AGRICULTURAL EXPERIMENT STATION, LABORATORY FOR AGRICULTURAL REMOTE SENSING, LAFAYETTE, INDIANA. JULY 1967, CONTRACT NUMBERS NGR-15-005-028 AND 12-14-100-8307(20). PUBLISHED IN RESEARCH BULLETIN NO. 832, LABORATORY FOR AGRICULTURAL REMOTE SENSING, VOL. NO. 2, (ANNUAL REPORT) JULY 1967.
NR-A7-EJ-998-00046	EARTH RESOURCES AIRCRAFT PROGRAM STATUS REVIEW, VOL. 2, AGRICULTURE, FORESTRY, AND SENSOR STUDIES. EARTH RESOURCES DIVISION, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. 1969.
NR-A7-JO-000-00052*	AN APPRAISAL OF THE POTENTIAL FOR AGRICULTURAL RESOURCE SURVEYS BY REMOTE SENSING, SUMMARY REPORT, NASA CR-103704. U.S. DEPT. OF AGRICULTURE, ECONOMIC RESEARCH SERVICE, WASHINGTON, D.C. MARCH 1969, CONTRACT NUMBERS R-09-038-001 AND R-09-038-002. STAR N69-33491.
NR-A7-GJ-044-00056*	REMOTE MULTISPECTRAL SENSING IN AGRICULTURE, PURDUE UNIV., AGRICULTURAL EXPERIMENT STATION AND THE SCHOOL OF ELECTRICAL ENGINEERING, LAFAYETTE, INDIANA. PUBLISHED IN LABORATORY FOR AGRICULTURAL REMOTE SENSING, (RESEARCH BULLETIN NO. 844) ANNUAL REPORT, VOL. 3, SEPT. 1966 - NOV. 1967.

## **AGRICULTURE**

### **SECTION 08 SUBJECT RELATED DOCUMENTS**

SUBJECT RELATED DOCUMENTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-AB-00-000-00009	REPORT OF WORK UNDER NASA TRANSFER OF FUNDS TO THE ECONOMIC RESEARCH SERVICE, USDA/DEPARTMENT OF AGRICULTURE, R-09-038-001 STAR X69-74556
NR-AB-00-000-00083	ADAPTATION OF A LINEAR TRANSDUCER FOR MEASURING LEAF THICKNESS, REPRINTED FROM AGRONOMY JOURNAL, VOL. 60, SEPT.-OCT. 1968, P. 578-579, CONTRACT NO. 160-75-01-07-10, M.D. HEILMAN, C.L. GONZALEZ, W.A. SWANSON, AND W.J. RIPPET, U.S. DEPT. OF AGRICULTURE, WESLAC, TEXAS
NR-AB-00-000-00162	NEUTRON SCATTERING AND SOIL MOISTURE, CHARLES P. FISHER, NORTH CAROLINA STATE UNIVERSITY, RALEIGH, NORTH CAROLINA. 1961.
NR-AB-00-000-00184	CONTRIBUTIONS OF AUTOMATIC CROP SURVEYS TO AGRICULTURAL DEVELOPMENT, P.M. HOFFER, C.J. JOHANNSEN, ET AL., LAB. FOR AGRICULTURAL REMOTE SENSING, PURDUE UNIVERSITY, WEST LAFAYETTE, INDIANA, PRESENTED AT THE 4TH ANNUAL MEETING AND TECHNICAL DISPLAY OF THE AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS, ANAHEIM, CALIFORNIA, OCTOBER 1967. AIAA PAPER NO. 66.
NR-AB-00-000-00292*	AN EVALUATION OF CROP AND LAND USE DATA IN A WORLD SAMPLE OF COUNTRIES, NASA CR-103944, SIMON BAKER, U.S. DEPT. OF AGRICULTURE, ECONOMIC RESEARCH SERVICE, WASHINGTON, D.C. NOVEMBER 1965. STAR N69-34879.

## **AGRICULTURE**

### **SECTION 09 TECHNICAL REPORTS**

## TECHNICAL REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
VR-A9-3J-044-00009*	INVESTIGATIONS OF SPECTRUM-MATCHING SENSING IN AGRICULTURE. SEMIANNUAL REPORT, DEC. 1965 - SEPT. 1966. VOL. I. FABIAN C. POLCYN, UNIVERSITY OF MICHIGAN, INSTITUTE OF SCIENCE AND TECHNOLOGY, WILLOW RUN LABORATORIES, ANN ARBOR, MICHIGAN. SEPTEMBER 1967. NASA GRANT NO. NSG 715/23-05-071.
VR-A9-3J-076-00049	THE POTENTIAL OF RADAR AS A REMOTE SENSOR IN AGRICULTURE: 1. A STUDY WITH K-BAND IMAGERY IN WESTERN KANSAS. CRES TECHNICAL REPORT 61-21. D.S. SIMONETT, J.E. EAGLEMAN, D.C. RHODES, AND D.E. SCHWARZ, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, AND A.B. ERHART, KANSAS STATE UNIVERSITY, AGRICULTURAL EXPERIMENT STATION, GARDEN CITY, KANSAS. CONTRACT NUMBERS NSR 17-004-003 AND NSG-298. STAR N67-36003.
VR-A9-30-000-00256	ABUNDANCE OF MICROFLORA IN SOILS OF DESERT REGIONS. TECHNICAL REPORT 32-1376. ROY E. CAMERON, CALIFORNIA INSTITUTE OF TECHNOLOGY, JET PROPULSION LABORATORY, PASADENA, CALIFORNIA. 15 MAY 1969. CONTRACT NO. NAS 7-100.
VR-A9-3J-027-00274	CROP SPECIES AND SOIL CONDITION DISCRIMINATION ON EKTACHROME INFRARED, APOLLO 9 IMAGERY AND INTERPRETATION OF AGRICULTURAL FEATURES ON 30-65 EXPERIMENT COLOR RECOMBINATIONS. CRAIG L. WIEGAND, ET. AL. U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS, 1969. CONTRACT NUMBER 160-75-01-07-10.
VR-A9-30-000-00280	RADAR REMOTE SENSING IN BIOLOGY. R.K. MOORE AND D.S. SIMONETT, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MARCH 1967. PUBLISHED IN BIOSCIENCE, V. 17, NO. 6, JUNE 1967, P 384-390.
VR-A9-30-000-00283	VEGETATION ANALYSIS WITH RADAR IMAGERY. CRES REPORT 61-9. S.A. MORAIN AND D.S. SIMONETT, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003. A PAPER PRESENTED TO THE FOURTH SYMPOSIUM ON REMOTE SENSING OF THE ENVIRONMENT UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, APRIL 1966. STAR N67-13509.
VR-A9-3J-159-00285	K-BAND RADAR IN VEGETATION MAPPING. CRES TECHNICAL REPORT 61-23. S.A. MORAIN AND D.S. SIMONETT, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSR-17-004-003 AND NSG-298. REPRINTED FROM PHOTOGRAMMETRIC ENGINEERING, JULY 1967, P 730-740.

## TECHNICAL REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-A9-FJ-076-00323	THE USE OF RADAR IN THE DISCRIMINATION AND IDENTIFICATION OF AGRICULTURAL LAND USE. DAVID SCHWARZ AND FRED CASPALL, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER USGS 14-08-0001-10848. PRESENTED AT THE FIFTH SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, APRIL 1968.
NR-A9-FJ-076-00325	ADAPTIVE PATTERN RECOGNITION OF AGRICULTURE IN WESTERN KANSAS BY USING A PREDICTIVE MODEL IN CONSTRUCTION OF SIMILARITY SETS. CRES TECHNICAL REPORT 133-3, R.M. HARALICK UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER (DOD) DAAK02-68-C-0089. PRESENTED AT THE FIFTH SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, APRIL 1968.
NR-A9-DO-000-00334	ELECTROOPTICAL REMOTE SENSING METHODS AS NONDESTRUCTIVE TESTING AND MEASURING TECHNIQUES IN AGRICULTURE. VICTOR I. MYERS AND WILLIAM A. ALLEN, U.S. DEPARTMENT OF AGRICULTURE, AGRICULTURAL RESEARCH SERVICE, WESLACO, TEXAS. PUBLISHED IN APPLIED OPTICS, V.7, NO.9, SEPTEMBER 1968, P 1819-1838.
NR-A9-DO-000-00335	LIGHT REFLECTANCE AND CHLOROPHYLL AND CAROTENE CONTENTS OF GRAPEFRUIT LEAVES AS AFFECTED BY $\text{Na}_2\text{SO}_4$ , $\text{NaCl}$ AND $\text{CaCl}_2$ . DAVID L. CARTER AND VICTOR I. MYERS, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS. REPRINTED FROM PROCEEDINGS OF THE AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE, VOL. 82, 1963, P.217-221.
NR-A9-DO-000-00336	PHOTOGRAMMETRY FOR DETAILED DETECTION OF DRAINAGE AND SALINITY PROBLEMS. V.I. MYERS, L.R. USSERY, AND W.J. RIPPERT, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS. REPRINTED FROM THE TRANSACTIONS OF THE ASAE, VOL. 6, NO. 4, 1963, P.332-334.
NR-A9-FH-032-00337	REMOTE SENSING FOR ESTIMATING SOIL SALINITY. VICTOR I. MYERS, DAVID L. CARTER, AND WILLIAM J. RIPPERT, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS, AND TWIN FALLS, IDAHO. PUBLISHED IN JOURNAL OF THE IRRIGATION AND DRAINAGE DIVISION, ASCE, V.92, NO.1R4, DECEMBER 1966, P.59-68.
NR-A9-FH-032-00338	FACTORS AFFECTING LIGHT REFLECTANCE OF COTTON. PROCEEDINGS OF 4TH SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, APRIL 12-14, 1966. P.305-312. J.R. THOMAS, V.I. MYERS, M.D. HEILMAN, AND C.L. WIEGAND, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS. STAR N67-13491.



## TECHNICAL REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-A9-FH-032-00339	REMOTE SENSING IN SOIL AND WATER CONSERVATION RESEARCH, PROCEEDINGS OF 4TH SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, APRIL 12-14, 1966, P.801-813. V.I. MYERS, C.L. WIEGAND, M.D. HEILMAN AND J.R. THOMAS, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS.
NR-A9-FH-032-00340	THERMAL PATTERNS OF SOLID FUEL BLOCK-HEATED CITRUS TREES. JOURNAL OF THE RIO GRANDE VALLEY HORTICULTURAL SOCIETY, VOL. 20, 1966. P.21-30. CRAIG WIEGAND, VICTOR MYERS, AND NORMAN MAXWELL, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS.
NR-A9-FH-032-00341	REFLECTANCE OF COTTON LEAVES AND ITS RELATION TO YIELD, REPRINTED FROM THE AGRONOMY JOURNAL, VOL.59, 1967, P.551-554 J.R. THOMAS, C.L. WIEGAND, AND V.I. MYERS, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS.
NR-A9-DO-000-00342	EFFECT OF HUMIDITY ON REFLECTANCE OF LIGHT. PROCEEDINGS OF 5TH SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, APRIL 16-18, 1968, P.291-297, HAROLD W. GAUSMAN AND RUBEN CARDENAS, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS.
NR-A9-FH-032-00343	DETAILED PLANT AND SOIL THERMAL REGIME IN AGRONOMY. PROCEEDINGS OF 5TH SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, APRIL 16-18, 1968, P.325-342. CONTRACT NO. R-09-038-002. C.L. WIEGAND, M.D. HEILMAN, AND A.H. GERBERMANN, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS.
NR-A9-FH-032-00344	INFRARED AERIAL COLOR PHOTOGRAPHY FOR DETECTION OF POPULATIONS OF BROWN SCFT SCALE IN CITRUS GROVES. REPRINT FROM JOURNAL OF ECONOMIC ENTOMOLOGY, VOL. 61, NO. 3, JUNE 1968, P.617-624. W.G. HART AND V.I. MYERS, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS.
NR-A9-FH-032-00345	INTERACTION OF LIGHT WITH A PLANT CANOPY. REPRINTED FROM JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 58, NO. 8, P.1023-1028, AUGUST 1968. CONTRACT NO. 160-75-01-07-10. WILLIAM A. ALLEN AND ARTHUR J. RICHARDSON, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS.
NR-A9-FH-032-00346	EFFECT OF SOIL SALINITY ON EXTERNAL MORPHOLOGY OF COTTON LEAVES. REPRINTED FROM AGRONOMY JOURNAL, VOL. 60, SEPT.-OCT, 1968, P.566-567. CONTRACT NO. 150-75-01-07-10. HAROLD W. GAUSMAN AND RUBEN CARDENAS, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS.

## TECHNICAL REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-A9-00-000-00347	REFLECTANCE OF COTTON LEAVES AND THEIR STRUCTURE, REPRINT FROM REMOTE SENSING OF ENVIRONMENT, 1969, P.19-22, CONTRACT NO. 160-75-01-07-10. F.W. GAUSMAN, W.A. ALLEN, AND R. CARDENAS, U.S. DEPARTMENT OF AGRICULTURE, WESLACO, TEXAS.
NR-A9-GJ-000-00374	INFORMATION PROCESSING OF REMOTELY SENSED AGRICULTURAL DATA. K.S. FU, AND D.A. LANDGREBE, LABORATORY FOR AGRICULTURAL REMOTE SENSING, AND THE SCHOOL OF ELECTRICAL ENGINEERING, PURDUE UNIVERSITY, LAFAYETTE, INDIANA. REPRINTED FROM THE PROCEEDINGS OF THE IEEE, VOL. 57, NO. 4, APRIL 1969, PP.639-653.
NR-A9-EJ-027-00410	IMPERIAL VALLEY GROUND TRUTH FOR APOLLO 9 OVERFLIGHT OF MARCH 1969. REPORT NO. 2264-7-X. N. SPANSAIL, WILLOW RUN LABORATORIES, INSTITUTE OF SCIENCE AND TECHNOLOGY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN. MAY 1969.
NR-A9-GJ-000-00460	AN AGRICULTURAL REMOTE SENSING INFORMATION SYSTEM. DR. R.A. HOLMES, PURDUE UNIVERSITY, LABORATORY FOR REMOTE SENSING LAFAYETTE, INDIANA. 1968. REPRINTED FROM EASCON 68 RECORD, P.142-149.
NR-A9-EJ-047-00470	AN APPROACH TO THE REMOTE DETECTION OF EARTH RESOURCES IN SUB-ARID LANDS. NASA TN D-4647. JEAN POUQUET, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. DECEMBER 1968.
NR-A9-GJ-000-00471	AIRPHOTO INTERPRETATION FOR SOIL STUDIES. RALPH W. KIEFER, WISCONSIN UNIVERSITY, ENGINEERING EXPERIMENT STATION, MADISON, WISCONSIN. DECEMBER 1966.
NR-A9-00-000-00537	A MULTICHANNEL IMAGE DATA HANDLING SYSTEM FOR AGRICULTURAL REMOTE SENSING. D.A. LANDGREBE AND T.L. PHILLIPS, PURDUE UNIVERSITY, LABORATORY FOR AGRICULTURAL REMOTE SENSING, LAFAYETTE, INDIANA. PRESENTED AT AND PUBLISHED BY COMPUTERIZED IMAGING TECHNIQUES, SEMINAR, WASHINGTON, D.C. JUNE 26-27, 1967.
NR-A9-00-000-00544	SPECTROPHOTOMETRIC AND COLORIMETRIC STUDY OF DISEASED AND RUST RESISTING CEREAL CROPS. NBS REPORT NO. 4591. H.J. KEEGAN, J.C. SCHLETER, AND W.A. HALL, U.S. DEPT. OF COMMERCE NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. 1957.
NR-A9-00-000-00548	SOME POLARIZATION MEASUREMENTS OF THE REFLECTED SUNLIGHT FROM DESERT TERRAIN NEAR TUCSON, ARIZONA. FREDERICK G. FERNALD, ET. AL., UNIVERSITY OF ARIZONA, INSTITUTE OF ATMOSPHERIC PHYSICS, TUCSON, ARIZONA. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 8, NO. 4, AUG. 1969, PP.604-609.

## TECHNICAL REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-A9-J0-000-00575*	AERIAL METHODS OF STUDYING AND MAPPING SANDS. N.G. KHARIN, DESERT INSTITUTE OF THE TURKMEN SSR ACADEMY OF SCIENCES, MOSCOW. PUBLISHED IN VESTNIK SEL SKOKHOZYAYSTVENNOY NAUKI, RUSSIAN, NO. 6, 1969, PP.74-80, STAR N69-35169.
NR-A9-J0-000-00582*	AERIAL PHOTOGRAPHY IN AGRICULTURE. G.H. BRENCHELEY, NATIONAL AGRICULTURAL ADVISORY SERVICE, CAMBRIDGE, ENGLAND. PUBLISHED IN AGRICULTURE, (MINISTRY OF AGRICULTURE, FISHERIES AND FOOD) LONDON, VOL. 77, NO. 11, NOV. 1968. PP.527-531.
NR-A9-J0-000-00583*	AERIAL PHOTOGRAPHY FOR THE STUDY OF PLANT DISEASES. GEORGE H. BRENCHELEY, NATIONAL AGRICULTURAL ADVISORY SERVICE, CAMBRIDGE, ENGLAND. PRESENTED AT THE ANNUAL REVIEW OF PHYTOPATHOLOGY, VOL. 6, 1968. PP.1-22.
NR-A9-FH-032-00601*	GROUND TRUTH SUMMARY, APRIL-JULY, 1969 SITE 32, WESLACO, TEXAS. REPORT NO. 69-03. ALVIN H. GERBERMAN, JOE A. CUELLAR, AND ROSS W. LEAMER. U.S. DEPT. OF AGRICULTURE, WESLACO, TEXAS. DEC. 1969. CONTRACT NO. 160-75-01-07-10.
NR-A9-J0-000-00620*	POTENTIAL BENEFITS TO BE DERIVED FROM APPLICATIONS OF REMOTE SENSING OF AGRICULTURAL, FOREST, AND RANGE RESOURCES. NASA CR-103946. DONALD J. BELCHER, ET AL., CORNELL UNIV., THE CENTER FOR AERIAL PHOTOGRAPHIC STUDIES, ITHACA, N.Y. DECEMBER 1967. CONTRACT NO. 12-17-04-1-326. STAR N69-34930
NR-A9-GJ-000-00642*	A TECHNIQUE FOR THE IDENTIFICATION OF FARM CROPS ON AERIAL PHOTOGRAPHS. M.S. GOODMAN, UNIVERSITY OF DETROIT, DEPT. OF GEOGRAPHY, DETROIT, MICHIGAN. PUBLISHED IN JOURNAL OF PHOTOGRAMETRIC ENGINEERING. VOL. 25, 1959. PP.131-137.
NR-A9-4J-000-00675*	AERIAL PHOTOGRAPHIC METHODS OF PHOTO DISEASE DETECTION. FRANKLIN E. MANZER, AND GEORGE R. COOPER, UNIVERSITY OF MAINE, AGRICULTURAL EXPERIMENT STATION, ORONO, MAINE. PUBLISHED IN MAINE AGRICULTURAL EXPERIMENT STATION BULLETIN 646, MARCH 1967.
NR-A9-GJ-044-00717*	THE APPLICATION OF PATTERN RECOGNITION TECHNIQUES TO A REMOTE SENSING PROBLEM. D.A. LANDGREBE, P.J. MIN, P.W. SWAIN, AND K.S. FU., LABORATORY FOR AGRICULTURAL REMOTE SENSING, PURDUE UNIVERSITY, LAFAYETTE, INDIANA, 1968. CONTRACT NO. 12-14-100-9502(20). PRESENTED AT THE 7TH SYMPOSIUM ON ADAPTIVE PROCESSES, LOS ANGELES, CALIFORNIA, DEC. 16-18, 1968.

## TECHNICAL REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-A9-00-000-00718*	AIR POLLUTION DETECTIVES. CHARLES R. BERRY, ET AL., SOUTH-EASTERN FOREST EXPERIMENT STATION, FOREST SERVICE ASHEVILLE, N.C. PUBLISHED IN THE YEARBOOK OF AGRICULTURE 1968, PP.142-146.
NR-A9-00-000-00740*	A DATA STORAGE SYSTEM FOR DESERT TERRAIN. AN INTERIM REPORT. MILITARY ENGINEERING EXPERIMENTAL ESTABLISHMENT, CHRISTCHURCH, HAMPSHIRE, ENGLAND. MARCH 1967. MICROFICHE COPY.
NR-A9-00-000-00755*	USING AERIAL PHOTOGRAPHY IN DIFFERENT SPECTRUM INTERVALS TO STUDY VEGETATION AND SOIL. REPORT NO. FSTC-HT-23-309-70. A.T. VINOGRADOVA, USSR. TRANSLATION OF GEOGRAFICHESKII SBORNIK, SSSR, VOL. 7, 1955. PP.59-74. MICROFICHE COPY. STAR N70-11718.
NR-A9-00-000-00760*	ORL EXPERIMENT PROGRAM. VOL. B, PART I - AGRICULTURE/FORESTRY. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966 CONTRACT NO. NASW-1215. STAR N66-17047.
NR-A9-00-000-00800*	USE OF AERIAL METHODS FOR THE STUDY OF TUNDRA LANDSCAPES AND FOR THEIR AGRICULTURAL UTILIZATION. V.V. ANDREEV, USSR. 1969. MICROFICHE COPY. STAR N70-10986.
NR-A9-00-000-00864*	AGRICULTURAL APPLICATIONS OF REMOTE MULTISPECTRAL SENSING. R.M. HOFFER, ET AL., PURDUE UNIVERSITY, LAFAYETTE, INDIANA. REPRINTED FROM PROCEEDINGS OF THE INDIANA ACADEMY OF SCIENCE FOR 1966, VOL. 76, NO. 2966, 1967. PP.386-395.
NR-A9-00-000-00868*	REFLECTANCE AND INTERNAL STRUCTURE OF COTTON LEAVES, GOSSYPIMUM HIRSUTUM L. A.W. GAUSMAN AND W.A. ALLEN, U.S. DEPT. OF AGRICULTURE, WESLACO, TEXAS. REPRINTED FROM AGRONOMY JOURNAL, VOL. 61, MAY-JUNE 1969. PP.374-376.
NR-A9-00-000-00870*	INTERACTION OF ISOTROPIC LIGHT WITH A COMPACT PLANT LEAF. W.A. 13LES, AND H.W. GAUSMAN, ET AL., U.S. DEPT. OF OPTICAL SOCIETY OF AMERICA, VOL. 59, NO. 10, OCT. 1969, PP.1376-1379.
NR-A9-EJ-998-00910*	INVESTIGATION OF MULTISPECTRAL DISCRIMINATION TECHNIQUES. REPORT NO. 2264-12-F. RICHARD F. VALEPKA, UNIVERSITY OF MICHIGAN, INSTITUTE OF SCIENCE AND TECHNOLOGY, WILLOW RUN LABORATORIES, ANN ARBOR, MICHIGAN. JANUARY 1970. CONTRACT NUMBER 12-14-100-9548(20).

TECHNICAL REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-A9-30-000-01004	*LEAF ANATOMY MONOGRAPH, PHOTOMICROGRAPHS OF LEAF TRANSECTIONS OF TWENTY-NINE PLANT GENERA, SWC RESEARCH REPORT 412, MARCIA SCHUPP, HAROLD W. GAUSMAN, AND RUBEN CARDENAS, U.S. DEPT. OF AGRICULTURE, SOIL AND WATER CONSERVATION RESEARCH DIV., WESLACO, TEXAS, DECEMBER 18, 1969. CONTRACT NUMBER 160-75-01-07-10.

**CARTOGRAPHY**

**CARTOGRAPHY**

**SECTION 05 - TECHNICAL LETTER REPORTS**

## TECHNICAL LETTER REPORTS - CARTOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-B5-30-000-00051	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-51, APPLICATIONS OF REMOTE SENSOR DATA TO CARTOGRAPHIC PROGRAMS. W. SIBERT, U.S.G.S., TOPOGRAPHIC DIVISION, MCLEAN, VIRGINIA, AUGUST 1966, CONTRACT NO. R-09-020-024, STAR X66-22138.
NR-B5-30-000-00054	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-54, POTENTIAL TIME-COST BENEFITS FROM USE OF ORBITAL-HEIGHT PHOTOGRAPHIC DATA IN CARTOGRAPHIC PROGRAMS. LOWELL E. STARR, U.S.G.S., TOPOGRAPHIC DIVISION, WASHINGTON, D.C., AND WINSTON SIBERT, U.S.G.S., TOPOGRAPHIC DIVISION, MCLEAN, VIRGINIA, AUGUST 1966. CONTRACT NUMBER R-09-020-024. STAR X66-21279.
NR-B5-30-000-00073	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-73. ULTRA-HIGH-PHOTOGRAPHY COMPILATION EVALUATION. ROBERT NUGENT, U.S.G.S., WASHINGTON, D.C. CONTRACT NO. R-09-020-024.
NR-B5-30-000-00079	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-79 RESOLUTION STUDY. ROBERT W. NUGENT AND HUGH B. LOVING, U.S.G.S., TOPOGRAPHIC DIVISION, WASHINGTON, D.C. MARCH 1967. CONTRACT NUMBER R-09-020-024.
NR-B5-6F-000-00087	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-87. A PHOTO-MOSAIC OF WESTERN PERU FROM GEMINI PHOTOGRAPHY. JULES A. MACKALLOR, U.S.G.S., WASHINGTON, D.C. OCTOBER 1967. CONTRACT NO. R-09-020-013. STAR X67-23758.
NR-B5-EJ-000-00111	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-111. PRELIMINARY SOIL CLASSIFICATION MAP OF SOUTHWESTERN U.S. AND MEXICO FROM SPACE PHOTOGRAPHY. ROGER B. MORRISON, U.S. GEOLOGICAL SURVEY, DENVER, COLORADO. CONTRACT NUMBER R-146-09-020-006. STAR N69-28395.
NR-B5-EJ-000-00114	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-114. A GEMINI MOSAIC ALONG THE THIRTY-SECOND DEGREE OF LATITUDE FROM BAJA CALIFORNIA TO CENTRAL TEXAS. JULES A. MACKALLOR, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. JUNE 1968. CONTRACT NUMBER R-09-020-013.
NR-B5-3J-007-00124	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-124. PRELIMINARY EVALUATION OF INFRARED AND RADAR IMAGERY, WASHINGTON AND OREGON COASTS. PARKE D. SNAVELY, JR., AND NORMAN S. MACLEOD, U.S. GEOLOGICAL SURVEY, MENLO PARK, CALIFORNIA, SEPTEMBER 1968. CONTRACT NUMBER W-12589. STAR N69-25024.



## TECHNICAL LETTER REPORTS - CARTOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-B5-EJ-998-00125	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-125. POTENTIAL OF RADAR REMOTE SENSORS AS TOOLS IN RECONNAISSANCE GEOMORPHIC, VEGETATION AND SOIL MAPPING. DAVID S. SIMONETT, CENTER FOR RESEARCH IN ENGINEERING SCIENCE, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS. JULY 1968. CONTRACT NUMBER 14-08-0001-10848. STAR N69-28154.
NR-B5-JO-000-00140	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-140. THE UTILITY OF RADAR AND OTHER REMOTE SENSORS IN THEMATIC LAND USE MAPPING FROM SPACECRAFT: ANNUAL REPORT. DAVID S. SIMONETT, UNIVERSITY OF KANSAS, DEPARTMENT OF GEOGRAPHY, LAWRENCE, KANSAS. JANUARY 1969. CONTRACT NO. R-09-020-024. STAR N69-16255.
NR-B5-JO-000-00162	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-162. THE PHOTOGRAMMETRIC APPROACH TO THE GRIDDING OF SPACE PHOTOGRAPHS. GLENN N. SMITH, OHIO STATE UNIVERSITY, DEPT. OF GEODETIC SCIENCE, COLUMBUS, OHIO. CONTRACT NUMBER R-09-020-024.
NR-B5-4E-000-00172	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-172. ENVIRONMENT MAPPING WITH SPACECRAFT PHOTOGRAPHY - A CENTRAL AUSTRALIAN EXAMPLE. DAVID S. SIMONETT, G. ROSS COCHRANE, STANLEY A. MORAIN, AND DWIGHT E. EGBERT, UNIVERSITY OF KANSAS, DEPT. OF GEOGRAPHY, LAWRENCE, KANSAS. JUNE 1969. CONTRACT NUMBER W-12570.

**CARTOGRAPHY**

**SECTION 07 SUMMARY REPORTS**

SUMMARY REPORTS - CARTOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-B7-30-000-00043	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES, GEODESY-CARTOGRAPHY-NO. 13. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR 09-012-909.

## **CARTOGRAPHY**

### **SECTION 08 SUBJECT RELATED DOCUMENTS**

## SUBJECT RELATED DOCUMENTS - CARTOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-88-30-000-00015	OFFICIAL REPORT OF THE U.S. DELEGATION TO THE UNITED NATIONS REGIONAL CARTOGRAPHIC CONFERENCE FOR AFRICA, JULY 1-13, 1963. STAR N69-75182.
NR-88-30-000-00194	AMERICAN MAPPING CAMERAS. CLARICE L. NORTON, FAIRCHILD SPACE AND DEFENSE SYSTEMS, SYOSSET, N.Y. PRESENTED AT THE 10TH CONGRESS, INTERNATIONAL SOCIETY OF PHOTOGRAMMETRY, LISBON, PORTUGAL. SEPT. 7-9, 1964. STAR X68-80528.
NR-88-30-000-00197*	ALPHABETICAL LIST OF ARTICLES PUBLISHED IN GEODEZIYA I KARTOGRAFIYA IN 1967. REPORT NO. FSTC-WT-23-707-68. 1968. MICROFICHE COPY.
NR-88-30-000-00208*	CARTOGRAPHY. 1967. L.S. GARAEVSKAYA, U.S. NAVY DEPT., NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. REPRINTED FROM KARTOGRAFIYA, 1955. PP.143-155. MICROFICHE COPY. STAR N69-71090.
NR-88-30-000-00233*	SURVEYING THE EARTH'S RESOURCES FROM SPACE. W.T. PICORA, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PRESENTED AT THE 27TH ANNUAL MEETING OF THE AMERICAN CONGRESS ON SURVEYING AND MAPPING, WASHINGTON, D.C., MARCH 10, 1967. MICROFICHE COPY.
NR-88-30-000-00289*	POSITION DETERMINATION FROM RADIO BEARINGS. NELSON M. BLACHMAN, SYLVANIA ELECTRONIC SYSTEMS, MT. VIEW, CALIF. SYSTEMS, VOL. AES-5, NO. 3, MAY 1969. PP.558-560. MICROFICHE COPY.

## **CARTOGRAPHY**

### **SECTION 09 TECHNICAL REPORTS**

## TECHNICAL REPORTS - CARTOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-B9-J-000-00030*	A DIVERSIFIED PROGRAM FOR THE STUDY OF SHALLOW WATER SEARCHING AND MAPPING TECHNIQUES. FINAL REPORT, GEORGE F. BASS, AND DONALD M. ROSENCRANTZ, UNIVERSITY OF PENNSYLVANIA, UNIVERSITY MUSEUM, PHILADELPHIA, PA. NOV. 1968. CONTRACT NUMBER N00014-67-A-0216-002. MICROFICHE COPY.
NR-B9-J-000-00032*	NATION-WIDE APPLICATION OF AEROTRIANGULATION. G. TEWINKEL, ESSA COAST AND GEODETIC SURVEY, ROCKVILLE, MARYLAND. PRESENTED AT THE AMERICAN PHOTOGRAMMETRIC SOCIETY-AMERICAN CONGRESS OF SURVEYING AND MAPPING, PORTLAND, OREGON, SEPT. 1969. PP.296-315 IN CONVENTION PROCEEDINGS.
NR-B9-J-000-00062*	A MODERN SYSTEM FOR AERIAL MAPPING. REPORT NO. GIMRADA-TN-67-2, ROBERT G. LIVINGSTON, U.S. ARMY ENGINEER GEODESY INTELLIGENCE AND MAPPING RESEARCH AND DEVELOPMENT AGENCY, WRIGHT-PATTERSON AFB, OHIO. PUBLISHED IN MILITARY ENGINEER, NO. 389, MAY-JUNE 1967. PP.172-173.
NR-B9-J-998-00093*	LAND USE MAPPING OF THE SOUTHWESTERN UNITED STATES FROM SATELLITE IMAGERY. NORMAN J. THROWER, ET AL., UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO, OCTOBER 1969. PAPER AAS 69-576. MICROFICHE COPY.
NR-B9-J-000-00161*	COORDINATE METHOD IN ANALYTICAL RADIAL TRIANGULATION. LIU HSIEN-LIN, CHINA. PUBLISHED IN ACTA GEODETICA ET CARTOGRAPHICA SINICA, VOL. 7, NO. 4, 1964. PP.261-274. MICROFICHE COPY.
NR-B9-J-000-00210*	ACCURACY OF SIGHTING AND IDENTIFYING POINTS DURING MEASUREMENTS OF THEIR COORDINATES FROM AERIAL PHOTOGRAPHS. N.M. FILCHAGIN, USSR. PUBLISHED IN GEODEZIJA I KARTOGRAFIJA, VOL. 14, NO. 6, 1969. PP.38-46. MICROFICHE COPY.
NR-B9-VK-000-00211*	PHOTOGRAMMETRIC CONTOURING FROM AERIAL COLOUR PHOTOGRAPHS. J. DENZLER. TOPOGRAPHICAL SURVEY OF SWITZERLAND. PRESENTED AT INTERNATIONAL CONGRESS OF PHOTOGRAMMETRY, 11TH, LAUSANNE, SWITZERLAND. JULY 1968. PUBLISHED IN INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, VOL. 17, PART 9, 1969.
NR-B9-SH-095-00217	COLOR-SEPARATION AND PRINTING TECHNIQUES FOR PHOTOMAPS. JACK W. PUMPELLY, U.S. GEOLOGICAL SURVEY. 1967. PUBLISHED IN SURVEYING AND MAPPING, VOL. 27, NO. 2, 1967. PP.277-280.

## TECHNICAL REPORTS - CARTOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-B9-J-676-00252	THE CORRELATION OF RADAR SCATTEROMETER DATA WITH AERIAL TERRAIN PHOTOGRAPHY. CRES TECHNICAL REPORT 118-13. J.M. CULLEN AND G.A. BRADLEY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. AUGUST 1968, REVISED MARCH 1969. CONTRACT NUMBER NAS 9-7175. STAR N69-32711
VR-B9-30-000-00258	A TECHNIQUE FOR PREPARING DESERT TERRAIN ANALOGS. HANDBOOK. TR 3-506. U.S. ARMY ENGINEER, CORPS OF ENGINEERS, WATERWAYS EXPERIMENT STATION, VICKSBURG, MISSISSIPPI. MAY 1959. CONTRACT NO. R AND D 8-70-09-400.
VR-B9-30-000-00261	THE USE OF AERIAL PHOTOGRAPHS FOR MAPPING AND RESOURCE SURVEYS IN DEVELOPING COUNTRIES. ANDREW N. NASH, UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI. PUBLISHED IN THE AMERICAN SOCIETY OF PHOTOGRAMMETRY. 1968 SEMI-ANNUAL MEETING, SAN ANTONIO, TEXAS. SEPT. 29-OCT. 3.
VR-B9-30-000-00263	SATELLITE MAPPING FOR EARTH RESOURCES SURVEYS. H. BERNSTEIN AND P.M. MERIFIELD, TRW SYSTEMS, REDONDO BEACH, CALIFORNIA. PUBLISHED IN THE AMERICAN SOCIETY OF PHOTOGRAMMETRY. 1968 SEMI-ANNUAL MEETING, SAN ANTONIO, TEXAS. SEPT. 29-OCT. 3.
VR-B9-30-000-00264	A UNIVERSAL PRECISION PLOTTER. DIETER ZEUNER, DIPL. ING. CARL ZEISS, JENA, GERMANY, D.D.R. PUBLISHED IN THE AMERICAN SOCIETY OF PHOTOGRAMMETRY. 1968 SEMI-ANNUAL MEETING, SAN ANTONIO, TEXAS. SEPT. 29-OCT. 3.
VR-B9-30-000-00265	AEROTRIANGULATION PROGRAM AT THE INTERNATIONAL CONGRESS. G.C. TEWINKEL, ESSA COAST AND GEODETIC SURVEY, ROCKVILLE, MD. PUBLISHED IN THE AMERICAN SOCIETY OF PHOTOGRAMMETRY. 1968 SEM-ANNUAL MEETING, SAN ANTONIO, TEXAS. SEPT. 29-OCT. 3.
VR-B9-EJ-998-00303	THE USE OF MULTIPARAMETER RADAR IMAGERY FOR THE DISCRIMINATION OF TERRAIN CHARACTERISTICS. CRES TECHNICAL REPORT 61-19. R.D. ELLERMEIER, D.S. SIMONETT AND L.F. DELLWIG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSR-17-004-003 AND NSG-298. PUBLISHED IN THE 1967 IEEE INTERNATIONAL CONVENTION RECORD, PART 2, P 127-135.
VR-B9-30-000-00327	POTENTIAL OF RADAR REMOTE SENSORS AS TOOLS IN RECONNAISSANCE GEOMORPHIC, VEGETATION AND SOIL MAPPING. D.S. SIMONETT, UNIVERSITY OF KANSAS, DEPARTMENT OF GEOGRAPHY, LAWRENCE, KANSAS. CONTRACT NUMBER USGS 14-08-0001-10848. PUBLISHED IN PROCEEDINGS, 9TH CONGRESS, INTERNATIONAL SOIL SCIENCE SOCIETY, ADELAIDE, AUSTRALIA, AUGUST 6-16, 1968.



## TECHNICAL REPORTS - CARTOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-B9-30-000-00370	RADAR RESOLUTION AND FIDELITY TESTING: THE ELGIN AFB, WRIGHT PATTERSON AFB AND FORT HUACHUCA RADAR TESTING RANGES, CRES TECHNICAL MEMORANDUM 118-13, GARY C. THOMANN, THE UNIVERSITY OF KANSAS, LAWRENCE, KANSAS. JUNE 1969. CONTRACT NUMBER NAS 9-7175.
VR-B9-30-000-00443	AIRBORNE RADIOMETRIC SURVEYING-OFFICE AND FIELD TECHNIQUES. (RME-129 REV). THOMAS L. BOYLE, U.S. ATOMIC ENERGY COMMISSION, GRAND JUNCTION, COLORADO. JULY 1963.
VR-B9-30-000-00461	IDENTIFICATION OF CONTROL POINTS IN TERRAIN AND IN AERIAL PHOTOGRAPHS. JIRI SIMA, GEODETIC INSTITUTE, PRAGUE, CZECHOSLOVAKIA. REPRINT FROM GEODETIC AND CARTOGRAPHIC HORIZON, VOL. 8/50, NO. 6, PRAGUE, JUNE 1962, P.102-107. STAR NO. X63-10251.
VR-B9-30-000-00464	DIE VERWENDUNG EINES 35-GHZ-RADIOMETERS ZUR KARTOGRAPHIE VOM FLUGZEUG AUS. ENGLISH TRANSLATION - THE USE OF A 35 GHZ RADIOMETER FOR MICROWAVE GROUND MAPPING. F. SCHLUDE, GERMANY. MAY 1968. STAR N68-30499.
VR-B9-30-000-00465	BEITRAG ZUR VERWENDUNG DES STEREOTOP FUR DIE HERSTELLUNG TOPOGRAPHISCHER KARTEN. ALFONS HABERMAYER, SONDERDRUCK AUS DEM MITTEILUNGSBLATT DES DEUTSCHEN VEREINS FUR VERMESSUNGSWESEN, LANDESVEREIN BAYERN, GERMANY. 1967. STAR N68-84243
VR-B9-30-000-00475	SOVIET USE OF RADIOGEODESIC STATIONS (RGSTS) IN MAKING TOPOGRAPHIC MAPS. M.D. KONSHIN AND N.D. NAZAROV, USSR. PUBLISHED IN GEODEZIYA I KARTOGRAFIYA, JUNE 1962, P.37-46. MICROFICHE COPY.
VR-B9-30-000-00477	ON SEARCHING A CONTOUR MAP FOR A GIVEN TERRAIN ELEVATION PROFILE. H. FREEMAN, DEPARTMENT OF ELECTRICAL ENGINEERING, NEW YORK UNIVERSITY, BRONX, NEW YORK, AND S.P. MORSE, IBM THOMAS J. WATSON RESEARCH CENTER, YORKTOWN HEIGHTS, NEW YORK. PUBLISHED IN THE JOURNAL OF THE FRANKLIN INSTITUTE, VOL. 284, NO. 1. JULY 1967. PP.1-23.
VR-B9-30-000-00568*	PHOTOGRAMMETRIC MAPPING USING VERTICALITY DATA. FINAL REPORT, MARCH 23-MAY 23, 1962. ARTHUR J. BRANDENBERGER, OHIO STATE UNIVERSITY, COLUMBUS, OHIO. CONTRACT NUMBER AF 08-(614)-3188. STAR N68-80480. MICROFICHE COPY.
VR-B9-30-000-00585	USE OF HIGH-ALTITUDE JET PHOTOGRAPHY FOR TOPOGRAPHIC MAPPING. ROBERT E. ALTENHOFEN, U.S. GEOLOGICAL SURVEY, MENLO PARK, CALIFORNIA. 1969.

## TECHNICAL REPORTS - CARTOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-B9-EJ-998-00587	ALL-WEATHER MAPPING BY RADAR, A.A. NIMS, DEFENSE AND SPACE CENTER, WESTINGHOUSE ELECTRIC CORP., BALTIMORE, MD. REPRINT FROM WESTINGHOUSE ENGINEER, VOL. 28, MAY 1968, PP.76-81.
NR-B9-JO-000-00607	H.F. IONOSPHERIC RADAR GROUND-SCATTER MAP SHOWING LAND-SEA BOUNDARIES BY A SPECTRAL-SEPARATION TECHNIQUE, J.C. BLAIR AND L.L. MELANSON, ESSA RESEARCH LABORATORIES, BOULDER COLORADO. PUBLISHED IN ELECTRONICS LETTERS, VOL. 5, NO. 4, FEB. 1969. PP.75-76.
NR-B9-JO-000-00618*	AERIAL PHOTOGRAPHY USED IN MAPPING VEGETATION AND SOILS. TRANSLATED FROM RUSSIAN BOOK, OPYT KARTIROVANIYA RASTITEL NOSTI I POCHV PO AEROSNIMKAM, 1964, B.V. VINOGRADOV, USSR.
NR-B9-JO-000-00668*	APPLICATION OF SMALL AERIAL CAMERAS TO THE COMPILATION OF 1:25,000 SCALE TOPOGRAPHIC MAPS, V. YE. PERMITIN AND A.S. SUDAKOV, ARMY FOREIGN SCIENCE AND TECHNOLOGY CENTER, WASH, D.C. TRANSLATED FROM RUSSIAN, PUBLISHED IN GEODEZIYA I KARTOGRAFIYA, NO. 7, 1968, PP.46-52. MICROFICHE COPY, STAR N69-33118.
NR-B9-JO-000-00751*	USE OF ELECTRONIC COMPUTERS IN TOPOGRAPHIC AND GEODETIC WORK, REPORT NO. FSTC-HT-23-713-68, L.A. KASHIN, USSR. TRANSLATION OF GEODEZIYA I KARTOGRAFIYA, NO. 5, 1968, PP.13-19. MICROFICHE COPY.
NR-B9-JO-000-00802*	PHOTOGRAMMETRIC EQUIPMENT, EDITED TRANSLATION OF MONOGRAPH V/O MASHPRIBORINTORG. APPARELS PONO LA PHOTOGRAMMETRIC, MOSCOW, N.D. PP.1-11. MICROFICHE COPY.
NR-B9-JO-000-00806*	RESULTS OF EXPERIMENTAL WORK OF THE TSNIIGAIK (CENTRAL SCIENTIFIC RESEARCH INSTITUTE OF GEODESY, AERIAL MAPPING AND CARTOGRAPHY) ON LARGE-SCALE SURVEYS, N.A. SOKOLOVA, USSR. TRANSLATION OF GEODEZIYA I KARTOGRAFIYA, NO. 7, 1968, PP.35-45. MICROFICHE COPY.
NR-B9-JO-000-00807*	SOVIET AERIAL PHOTOGRAPHY AND OTHER TOPOGRAPHIC, GEODETIC AND CARTOGRAPHIC SURVEYS IN THE ANTARCTIC, B.V. DUBOVSKOY, USSR. TRANSLATION OF GEODEZIYA I KARTOGRAFIYA, NO. 6, 1966, PP.51-61. MICROFICHE COPY.
NR-B9-JO-000-00808*	GEODESY AND CARTOGRAPHY, NO. 3, 1966 (SELECTED ARTICLES), E.A. OSIPOV, M.V. OSTROVSKII, AND E.R. MALOV, USSR. TRANSLATION OF GEODEZIYA I KARTOGRAFIYA, NO. 3, 1966, PP.50-55. MICROFICHE COPY.

TECHNICAL REPORTS - CARTOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-B9-00-000-00809	SOVIET PHOTOGRAMMETRY, (SURVEYS OF FOREIGN SCIENCE AND TECHNICAL LITERATURE), ALEXANDER BOBROVSKY, LIBRARY OF CONGRESS, AF SPACE TECHNOLOGY DIV., WASHINGTON, D.C., JUNE 1969. MICROFICHE COPY. STAR N69-41250.
NR-B9-00-000-00862	GRUNDLAGEN, BEARBEITUNG UND HERSTELLUNG GROSSMASSTABIGER LUFTBILDKARTEN, (FUNDAMENTALS, PROCESSING AND MANUFACTURE OF LARGE SCALE AEROPHOTOGRAPHIC MAPS), RUDOLF SCHWEISSHAL, TECHNISCHE HOCHSCHULE HANNOVER, WEST GERMANY, FAKULTAT FUR BAUWESEN. 1967. STAR N69-11041.
NR-B9-00-000-00932	MARKING OF GEODETIC POINTS IN OPEN MOUNTAIN REGIONS. M.S. KRYUGER, USSR. TRANSLATED FROM GEODEZIYA I KARTOGRAFIYA, NO. 11, 1965. PP. MICROFICHE COPY.
NR-B9-00-000-00934	EXPERIENCE IN LARGE-SCALE LANDSCAPE INTERPRETATION AND MAPPING OF KEY SECTORS IN THE ARID AND SUBARID ZONES OF CENTRAL ASIA AND KAZAKHSTAN. B.V. VINOGRADOV, USSR, AUGUST 1968. STAR N70-10842. MICROFICHE COPY.
NR-B9-00-000-01037	APPLICATION OF AERIAL PHOTOGRAPHS IN GEOMORPHOLOGY. FRITZ FEZER, HEIDELBERG UNIVERSITY, WEST GERMANY. PUBLISHED IN BILDMESSUNG UND LUFTBILDWESEN, VOL. 37, JULY 1969. PP.161-165.

**FORESTRY**

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**SECTION 04 MISSION SCREENING**

**AND SUMMARY REPORTS**

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MISSION SCREENING AND SUMMARY REPORTS - FORESTRY

ACCESSION NUMBER

DESCRIPTION

VR-C4-4E-901-B0097 MISSION NO. 97 SITES 901

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### **SECTION 05 TECHNICAL LETTER REPORTS**

TECHNICAL LETTER REPORTS - FORESTRY

ACCESSION NUMBER	DESCRIPTION
NR-C5-4K-000-00159	<p>U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER W-169.  THE EMPLOYMENT OF WEATHER SATELLITE IMAGERY IN AN EFFORT TO  IDENTIFY AND LOCATE THE FOREST-TUNDRA ECOTONE IN CANADA.  SUSAN A. ALDRICH, FRANK T. ALDRICH, AND ROBERT D. RUDD,  OREGON STATE UNIVERSITY, CORVALLIS, OREGON. SEPTEMBER 1969.  CONTRACT NUMBER W-12589.</p>



## **FORESTRY**

### **SECTION 08 SUBJECT RELATED DOCUMENTS**

SUBJECT RELATED DOCUMENTS - FORESTRY

ACCESSION NUMBER	DESCRIPTION
NR-C8-30-000-00174	FORESTERS GUIDE TO AERIAL PHOTO INTERPRETATION, AGRICULTURAL HANDBOOK 308. T, EUGENE AVERY, DEPT. OF FORESTRY, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS. OCTOBER 1966.
NR-C8-30-000-00175	IDENTIFICATION OF TREE SPECIES ON LARGE-SCALE PANCHROMATIC AND COLOR AERIAL PHOTOGRAPHS, R.C. HELLER, G.E. DOVERSPIKE, AND R.C. ALDRICH, FOREST INSECT LAB., U.S. DEPT. OF AGRICULTURE, BELTSVILLE, MD. PUBLISHED IN AGRICULTURE HANDBOOK NO. 261, JULY 1964.

## **FORESTRY**

### **SECTION 09 TECHNICAL REPORTS**

## TECHNICAL REPORTS - FORESTRY

ACCESSION NUMBER	DESCRIPTION
VR-C9-JJ-000-00004*	APPRAISING AND MAPPING FUELS WITH AERIAL PHOTOGRAPHS. H. GYDE LUND, PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, SEATTLE, WASHINGTON. PAPER PRESENTED AT ASP-ACSM, 1969 FALL CONVENTION, PORTLAND, OREGON, SEPT. 1969. PP.173-180.
VR-C9-JJ-159-00039	FIELD STUDIES ON VEGETATION AT HORSEFLY MOUNTAIN, OREGON AND ITS RELATION TO RADAR IMAGERY, CRES REPORT NO. 61-22. STANLEY A. MORAIN, REMOTE SENSING LABORATORY CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS. CONTRACT NOS. NSG-298 AND NSR-17-004-003. STAR A67-36024.
VR-C9-VJ-000-00051*	POSSIBILITIES OF EMPLOYING ARTIFICIAL SATELLITES IN ITALY FOR FOREST FIRE DETECTION AND WARNING. RAFFAELLO BRUNO, DEPT. OF AGRICULTURE AND FORESTRY, ROME, ITALY, AND UMBERTO GHEZZI, C.N.R., POLITECNICO DE MILANO, MILAN, ITALY. 1969. STAR N70-10952. MICROFICHE COPY.
VR-C9-J0-000-00107*	APPLICATIONS OF EARTH ORBITAL REMOTE SENSING TO FOREST AND RANGE PROBLEMS. AAS PAPER 69-059. ROBERT V. COLWELL, UNIVERSITY OF CALIFORNIA, FORESTRY REMOTE SENSING LAB., BERKELEY, CALIFORNIA. JUNE 1969. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY AND OPERATIONS RESEARCH SOCIETY OF AMERICA, JOINT NATIONAL MEETING, DENVER, COLORADO, JUNE 1969.
VR-C9-J0-000-00193*	DIRECT DETERMINATION OF AREA DISTRIBUTION BASED UPON TOPOGRAPHIC FEATURES BY MEANS OF THE WILD B9 AVIOGRAPH. Z. TOMASEGOVIC, INSTITUTE FOR SURVEYING, FORESTRY, FACULTY, ZAGREB, YUGOSLAVIA. PUBLISHED IN PHOTOGRAMMETRIA, VOL. 23, NO. 4, JULY 1968. PP.125-137.
VR-C9-J0-000-00194*	VOLUME ASSESSMENT THROUGH AERIAL PHOTOGRAPHS IN A FOREST AREA IN BELGIUM. D.A. STELLINGWERF, INTERNATIONAL INST. FOR AERIAL SURVEY AND EARTH SCIENCES, DELFT, THE NETHERLANDS. PUBLISHED IN PHOTOGRAMMETRIA, VOL. 22 NO. 5, JULY 1967. PP.161-169.
VR-C9-J0-000-00209*	PHOTO-INTERPRETATION IN FOREST TYPE MAPPING AND INVENTORY. P.N. GUPTA, INTERNATIONAL INSTITUTE FOR AERIAL SURVEY AND EARTH SCIENCES, DELFT, NETHERLANDS. AUGUST 1969. PUBLICATIONS SERIES B, NO. 55. MICROFICHE COPY. STAR N70-12911.

## TECHNICAL REPORTS - FORESTRY

ACCESSION NUMBER	DESCRIPTION
VR-C9-3J-000-00260	COLOR NEGATIVES ON THE COCONINO NATIONAL FOREST. CHARLES D. GALBREATH, U.S. FOREST SERVICE, SOUTHWESTERN REGION, ALBUQUERQUE, NEW MEXICO. PUBLISHED IN THE AMERICAN SOCIETY OF PHOTOGRAMMETRY, 1968 SEMI-ANNUAL MEETING, SAN ANTONIO, TEXAS. SEPT. 29-OCT. 3.
VR-C9-3J-000-00268	COLOR PHOTOGRAPHY FOR APPRAISAL SURVEYS OF THE SOUTHERN PINE BEETLE IN THE SOUTHEAST. W.M. CIESLA, U.S. FOREST SERVICE, SOUTHEAST AREA, DIVISION OF FOREST PEST CONTROL, PINEVILLE, LOUISIANA. PUBLISHED IN THE AMERICAN SOCIETY OF PHOTOGRAMMETRY, 1968 SEMI-ANNUAL MEETING, SAN ANTONIO, TEXAS, SEPTEMBER 29-OCTOBER 3.
VR-C9-3K-000-00373	INFRARED LOCATES DISEASED TREES. (REPRINTED FROM ELECTRONICS WORLD, AUGUST 1969 PP. 34-35). ROBERT NEUBERT, AMPEX CORP, REDWOOD CITY, CALIFORNIA.
VR-C9-3J-000-00375	SOME OBSERVATIONS ON THE USE OF MULTIBAND SPECTRAL RECONNAISSANCE FOR THE INVENTORY OF WILDLAND RESOURCES. REPRINTED FROM REMOTE SENSING OF ENVIRONMENT, VOL. 1, NO. 1, MARCH 1969. JERRY D. LENT AND GENE A. THORLEY, UNIVERSITY OF CALIFORNIA, SCHOOL OF FORESTRY AND CONSERVATION, BERKELEY, CALIFORNIA.
VR-C9-3D-000-00466	PRESENT AND FUTURE FORESTRY APPLICATIONS OF REMOTE SENSING FROM SPACE. WILLIAM C. DRAEGER AND DONALD T. LAUER, FORESTRY REMOTE SENSING LABORATORY, UNIVERSITY OF CALIF. BERKELEY, CALIFORNIA. PUBLISHED AS AIAA PAPER NO. 67-765, 4TH ANNUAL MEETING AND TECHNICAL DISPLAY, OCTOBER 23-27, 1967, ANAHEIM, CALIFORNIA.
VR-C9-3J-000-00468	ESTIMATING TREE MORTALITY FROM APOLLO 9 IMAGERY. JOHN F. WEAR, U.S. FOREST SERVICE, PORTLAND, OREGON. SEPTEMBER 1969.
VR-C9-4K-000-00541	A TEST WITH LARGE SCALE AERIAL PHOTOGRAPHS TO SAMPLE BALSAM WOOLLY APHID DAMAGE IN THE NORTHEAST. R.C. HELLER, J.H. LOWE, R.C. ALDRICH, ET AL., PACIFIC SOUTHWEST FORESTRY AND RANGE EXPERIMENT STATION, BERKELEY, CALIFORNIA. REPRINTED FROM JOURNAL OF FORESTRY, VOL. 65, NO. 1. JAN. 1967. PP. 10-18.
VR-C9-3D-000-00561*	AN ANALYSIS OF MEASUREMENTS OF LIGHT REFLECTANCE FROM TREE FOLIAGE MADE DURING 1960 AND 1961. CHARLES E. OLSON, ET AL., UNIVERSITY OF ILLINOIS, AGRICULTURAL EXPERIMENT STATION, DEPT. OF FORESTRY, URBANA, ILLINOIS. JUNE 1964. CONTRACT NUMBER NONR-1834(31). MICROFICHE COPY. STAR N65-81674.

## TECHNICAL REPORTS - FORESTRY

ACCESSION NUMBER	DESCRIPTION
NR-C9-30-000-00565*	EXPERIMENT IN MARKING CONTROL POINTS IN A FOREST. G.N. TIMUSHEV, U.S. AIR FORCE, AERONAUTICAL CHART AND INFORMATION CENTER, CARTOGRAPHY DIV., ST. LOUIS, MISSOURI, SEPT. 1968. STAR N69-15885. MICROFICHE COPY.
NR-C9-30-000-00599*	STRATIFYING PHOTO PLOTS INTO VOLUME CLASSES. U.S. FOREST SERVICE RESEARCH NOTE PSW-141. ROBERT C. ALDRICH, PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION, BERKELEY, CALIFORNIA. 1967.
NR-C9-30-000-00605	WEDGE MEASURES PARALLAX SEPARATIONS...ON LARGE-SCALE 70-MM. AERIAL PHOTOGRAPHS. REPORT NUMBER PSW-142. STEVEN L. WERT AND RICHARD J. MYHRE, PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION, BERKELEY, CALIFORNIA. 1967.
NR-C9-30-000-00608*	PRACTICAL APPLICATIONS OF AERIAL PHOTOGRAPHS IN FORESTRY AND OTHER VEGETATION STUDIES. (PUBLISHED IN ENGLISH, FRENCH AND SPANISH) D.A. STELLINGWERF, INTERNATIONAL TRAINING CENTER FOR AERIAL SURVEY, DELET, NETHERLANDS. PUBLISHED IN I.T.C. PUBLICATION SERIES B, NO. 38, 1966. STAR N67-12851.
NR-C9-30-000-00625*	DETECTION AND CLASSIFICATION OF ASH DIEBACK ON LARGE-SCALE COLOR AERIAL PHOTOGRAPHS. U.S. FOREST SERVICE RESEARCH PAPER PSW-35. RALPH J. CROXTON, PACIFIC SOUTHWEST FORESTRY AND RANGE EXPERIMENT STATION, BERKELEY, CALIFORNIA. 1966.
NR-C9-30-000-00679*	RECOGNITION OF TREE SPECIES ON AIR PHOTOGRAPHS BY CROWN CHARACTERISTICS. L. SAYN-WITTGENSTEIN, DEPT. OF FORESTRY, CANADA. PUBLISHED IN CANADA, DEPT. OF FORESTRY AND RURAL DEVELOPMENT, FORESTRY BRANCH TECHNICAL NOTE NO. 95. 1960.
NR-C9-30-000-00680*	TREE MEASUREMENTS ON LARGE-SCALE, VERTICAL, 70MM. AIR PHOTOGRAPHS. FOREST RESEARCH BRANCH CONTRIBUTION NO. 591. F.W. KIPPEN AND L. SAYN-WITTGENSTEIN, DEPT. OF FORESTRY, FOREST RESEARCH BRANCH, OTTAWA, CANADA. 1964.
NR-C9-30-000-00681*	PHENOLOGICAL AIDS TO SPECIES IDENTIFICATION ON AIR PHOTOGRAPHS. DEPT. OF FORESTRY, FOREST RESEARCH BRANCH, TECHNICAL NOTE 104. L. SAYN-WITTGENSTEIN, DEPT. OF FORESTRY, FOREST RESEARCH BRANCH, OTTAWA, CANADA. 1961.
NR-C9-30-000-00688*	AVIONICS IN FOREST RESOURCE INVENTORIES. L. SAYN-WITTGENSTEIN AND A.H. ALDRED, DEPT. OF FORESTRY AND RURAL DEVELOPMENT, OTTAWA, CANADA. PUBLISHED IN CANADIAN AERONAUTICS AND SPACE JOURNAL, VOL. 14, NO. 8, OCT. 1968. PP.315-317.

## TECHNICAL REPORTS - FORESTRY

ACCESSION NUMBER	DESCRIPTION
NR-C9-GJ-125-00722*	STRATIFYING STAND VOLUME ON NON-STEREO AERIAL PHOTOS - REDUCES ERRORS IN FOREST SURVEY ESTIMATES. REPORT NO. PSW-51. ROBERT C. ALDRICH AND NANCY X. NORICK, PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION, BERKELEY, CALIF. 1969. STAR N70-13254.
NR-C9-JL-000-00742*	AERIAL PHOTOGRAPHY AND MAPPING OF THE SIBERIAN FOREST. G.P. MOTOVILOV, RUSSIA. TRANSLATION OF MONOGRAPH, AERO-FOTOSEMKA I KARTOGRAFIYAROVANIE, MOSCOW 1966. MICROFICHE COPY. STAR N70-11720.
NR-C9-JO-000-00749*	SWAMPY FOREST ZONE TERRAIN. REPORT NO. FSTC-HT-23-736-69. E.A. GALKINA, RUSSIA. TRANSLATION OF GEOFIZICHESKII SBORNIK (USSR) VOL. 7, 1955. PP.75-84. MICROFICHE COPY. STAR N70-11486.
NR-C9-JO-000-00750*	USE OF AERIAL PHOTOGRAPHY IN STUDYING FOREST TYPES. REPORT NO. FSTC-HT-23-285-68. G.G. SAMOILOVICH, ACADEMY OF SCIENCES, RUSSIA. 1961. MICROFICHE COPY.
NR-C9-JO-000-00775*	INFRARED FIREMAPPER DETECTOR AND ITS ROLE IN FOREST FIRE CONTROL. J.E. TAYLOR, COMPUTING DEVICES OF CANADA, VOL. 69, NO. 20, OCTOBER 1968. PP.87-91.
NR-C9-EJ-000-00846*	INFRARED PINPOINTS FIRES THROUGH A SEA OF SMOKE. CRAIG C. CHANDLER, U.S. FOREST SERVICE, WASHINGTON, D.C. PUBLISHED IN THE YEARBOOK OF AGRICULTURE 1968. PP.208-217.
NR-C9-JO-000-00856*	RADIANT ENERGY IN RELATION TO FORESTS. USDA FOREST SERVICE TECHNICAL BULLETIN NO. 1344. WILLIAM E. REIFSNYDER, YALE UNIVERSITY, NEW HAVEN, CONN. AND HOWARD W. LULL, NORTH-EASTERN FOREST EXPERIMENT STATION, UPPER DARBY, PA. U.S. DEPT. OF AGRICULTURE, FOREST SERVICE, WASHINGTON, D.C. DEC. 1965.
NR-C9-EJ-000-00874*	AERIAL PHOTOGRAPHIC TECHNIQUES FOR ESTIMATING DAMAGE BY INSECTS IN WESTERN FORESTS. J.F. WEAR, R.B. POPE, AND ROBERT B. POPE, U.S. FOREST SERVICE, PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, PORTLAND, OREGON. 1966.
NR-C9-JO-000-00924*	USE OF AERIAL METHODS FOR STUDYING ZONAL AND REGIONAL LANDSCAPE PATTERNS. V.P. MIROSHNICHENKO, USSR. SEPT. 1960. MICROFICHE COPY.

TECHNICAL REPORTS - FORESTRY

ACCESSION NUMBER	DESCRIPTION
NR-C9-30-000-00928*	KODAK EKTACHROME INFRARED AERO FILM FOR FORESTRY PURPOSES, D.A. STELLINGWERF, INTERNATIONAL INSTITUTE FOR AERIAL SURVEY AND EARTH SCIENCES, DELFT, NETHERLANDS. PUBLICATIONS SERIES B, NO. 54. MARCH 1969. STAR V70-10556, MICROFICHE COPY.
NR-C9-30-000-00975*	PROJECT FIRE SCAN, FIRE MAPPING, FINAL REPORT, APRIL 1962 - DECEMBER 1966. THE USE AND SYSTEM REQUIREMENTS OF INFRARED SCANNERS IN MAPPING WILDFIRES. U.S. FOREST SERVICE RESEARCH PAPER INT-49, 1968. STANLEY N. HIRSCH, U.S. FOREST SERVICE, NORTHERN FOREST FIRE LAB., MISSOULA, MONTANA, ROBERT L. BJORNSEN, U.S. FOREST SERVICE, DIV. OF FIRE CONTROL, WASH., D.C., ET AL., 1968. CONTRACT NUMBERS OCD-OS-62-174 AND OCD-PS-66-17.



# GEOGRAPHY

## **GEOGRAPHY**

### **SECTION 01 SITE MAPS**

## SITE MAPS - GEOGRAPHY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-D1-EJ-014-00258	HIGH ALTITUDE AIRCRAFT, EL PASO TO TUCSON	REGIONAL	17 x 22
NR-D1-EJ-015-00258	HIGH ALTITUDE AIRCRAFT, EL PASO TO TUCSON	REGIONAL	17 x 22
NR-D1-EJ-027-00168	SITE 130-SOUTHERN CALIFORNIA SITE 027-SALTON SEA, CALIFORNIA SITE 157-BORREGO SPRINGS, CALIFORNIA	REGIONAL	17 x 22
NR-D1-EJ-027-00257	HIGH ALTITUDE AIRCRAFT, YUMA TO LOS ANGELES	REGIONAL	17 x 22
NR-D1-EJ-030-00214	SITE 030-TUCSON, ARIZONA	REGIONAL	17 x 22
NR-D1-EJ-030-00252	SITE 030-TUCSON, ARIZONA	REGIONAL	17 x 22
NR-D1-EJ-030-00258	HIGH ALTITUDE AIRCRAFT, EL PASO TO TUCSON	REGIONAL	17 x 22
NR-D1-GJ-043-00019	SITE 043-CHICAGO, ILLINOIS	DETAIL	17 x 22
NR-D1-GJ-043-00020	SITE 043-CHICAGO, ILLINOIS	DETAIL	17 x 22
NR-D1-GJ-043-00021	SITE 043-CHICAGO, ILLINOIS	REGIONAL	17 x 22
NR-D1-GJ-043-00041	SITE 043-CHICAGO, ILL.	DETAIL	17 x 22
NR-D1-GJ-043-00042	SITE 043-CHICAGO, ILL.	DETAIL	17 x 22
NR-D1-GJ-046-00011	SITE 046-ASHEVILLE, N.C.	REGIONAL	17 x 20
NR-D1-GJ-046-00012	SITE 046-ASHEVILLE, N.C.	DETAIL	17 x 22
NR-D1-GJ-046-00077	SITE 046-ASHEVILLE, NORTH CAROLINA	REGIONAL	17 x 22
NR-D1-GJ-046-00138	SITE 046-ASHEVILLE, NORTH CAROLINA	REGIONAL	17 x 22
NR-D1-FJ-085-00089	SITE 085-LAWRENCE, KANSAS	REGIONAL	17 x 22
NR-D1-FJ-085-00126	SITE 085-LAWRENCE, KANSAS	REGIONAL	17 x 22
NR-D1-FJ-085-00176	SITE 085-LAWRENCE, KANSAS	REGIONAL	17 x 22

## SITE MAPS - GEOGRAPHY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-D1-3H-098-00055	SITE 098-HOMESTEAD, FLA., SITE 102-STATENVILLE/LAKE CITY, FLA., PHOSPHATE SITE 103-CRYSTAL RIVER, FLORIDA, SITE 104-WAUCHULA/TAMPA, FLA.,	REGIONAL	17 x 22
NR-D1-3H-102-00055	SITE 098-HOMESTEAD, FLA., SITE 102-STATENVILLE/LAKE CITY, FLA., PHOSPHATE SITE 103-CRYSTAL RIVER, FLORIDA, SITE 104-WAUCHULA/TAMPA, FLA.,	REGIONAL	17 x 22
NR-D1-3H-103-00055	SITE 098-HOMESTEAD, FLA., SITE 102-STATENVILLE/LAKE CITY, FLA., PHOSPHATE SITE 103-CRYSTAL RIVER, FLORIDA, SITE 104-WAUCHULA/TAMPA, FLA.,	REGIONAL	17 x 22
NR-D1-3H-104-00055	SITE 098-HOMESTEAD, FLA., SITE 102-STATENVILLE/LAKE CITY, FLA., PHOSPHATE SITE 103-CRYSTAL RIVER, FLORIDA, SITE 104-WAUCHULA/TAMPA, FLA.,	REGIONAL	17 x 22
NR-D1-3H-105-00022	SITE 105-CRESCENT BEACH SUBMARINE SPRING, FLA.	REGIONAL	17 x 22
NR-D1-EJ-117-00257	HIGH ALTITUDE AIRCRAFT, YUMA TO LOS ANGELES	REGIONAL	17 x 22
NR-D1-EJ-130-00029	SITE 130-SOUTHERN CALIF.	DETAIL	17 x 22
NR-D1-EJ-130-00066	SITE 130-SOUTHERN CALIFORNIA	REGIONAL	17 x 22
NR-D1-EJ-130-00105	SITE 130-SOUTHERN CALIFORNIA	REGIONAL	17 x 22
NR-D1-EJ-130-00107	SITE 130-SOUTHERN CALIFORNIA SITE 157-BORREGO SPRINGS, CALIF.	REGIONAL	17 x 22
NR-D1-EJ-130-00168	SITE 130-SOUTHERN CALIFORNIA SITE 027-SALTON SEA, CALIFORNIA SITE 157-BORREGO SPRINGS, CALIFORNIA	REGIONAL	17 x 22
NR-D1-EJ-130-00171	SITE 130-SOUTHERN CALIFORNIA	REGIONAL	17 x 22

## SITE MAPS - GEOGRAPHY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
VR-D1-EJ-130-00257	HIGH ALTITUDE AIRCRAFT, YUMA TO LOS ANGELES	REGIONAL	17 x 22
VR-D1-GJ-132-00063	SITE 132-NEW ORLEANS, LA. SITE 133-MICHOUD, LA. SITE 134-SLIDELL, LA. SITE 137-MISSISSIPPI TEST FACILITY	REGIONAL	17 x 22
VR-D1-GH-132-00127	SITE 132-NEW ORLEANS, LOUISIANA	REGIONAL	17 x 22
VR-D1-GH-132-00143	SITE 132-NEW ORLEANS, LOUISIANA	REGIONAL	17 x 22
VR-D1-GH-132-00204	SITE 132-NEW ORLEANS, LOUISIANA	REGIONAL	17 x 22
VR-D1-GJ-133-00063	SITE 132-NEW ORLEANS, LA. SITE 133-MICHOUD, LA. SITE 134-SLIDELL, LA. SITE 137-MISSISSIPPI TEST FACILITY	REGIONAL	17 x 22
VR-D1-GJ-133-00128	SITE 133-MICHOUD, LOUISIANA	REGIONAL	17 x 22
VR-D1-GJ-134-00063	SITE 132-NEW ORLEANS, LA. SITE 133-MICHOUD, LA. SITE 134-SLIDELL, LA. SITE 137-MISSISSIPPI TEST FACILITY	REGIONAL	17 x 22
VR-D1-GJ-134-00129	SITE 134-SLIDELL, LOUISIANA	REGIONAL	17 x 22
VR-D1-GJ-137-00063	SITE 132-NEW ORLEANS, LA. SITE 133-MICHOUD, LA. SITE 134-SLIDELL, LA. SITE 137-MISSISSIPPI TEST FACILITY	REGIONAL	17 x 22
VR-D1-GJ-137-00130	SITE 137-MISSISSIPPI TEST FACILITY	REGIONAL	17 x 22
VR-D1-GH-146-00207	SITE 146-ALAFIA/PEACE RIVERS, FLORIDA SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
VR-D1-GH-146-00249	SITE 146-ALAFIA/PEACE RIVERS, FLA. SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
VR-D1-GJ-153-00083	SITE 153-ANNAPOLIS, MARYLAND	REGIONAL	17 x 22
VR-D1-EJ-157-00107	SITE 150-SOUTHERN CALIFORNIA SITE 157-CORREGO SPRINGS, CALIF.	REGIONAL	17 x 22

## SITE MAPS - GEOGRAPHY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-D1-EJ-157-00168	SITE 130-SOUTHERN CALIFORNIA SITE 027-SALTON SEA, CALIFORNIA SITE 157-BORREGO SPRINGS, CALIFORNIA	REGIONAL	17 x 22
NR-D1-OJ-159-00117	SITE 159-HORSEFLY MOUNTAIN, OREGON	REGIONAL	17 x 22
NR-D1-GH-164-00156	SITE 164-BOCA RATON/BELLE GLADE, FLA.	REGIONAL	17 x 22
NR-D1-GH-164-00200	SITE 164-BOCA RATON/BELLE GLADE, FLA.	REGIONAL	17 x 22
NR-D1-GH-164-00229	SITE 164-BOCA RATON/BELLE GLADE, FLA.	REGIONAL	17 x 22
NR-D1-GH-164-00232	SITE 164-BOCA RATON/BELLE GLADE, FLA.	REGIONAL	17 x 22
NR-D1-GH-164-00240	SITE 164-BOCA RATON/BELLE GLADE, FLA.	REGIONAL	17 x 22
NR-D1-GJ-165-00132	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GJ-165-00133	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GJ-165-00134	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GJ-165-00147	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GJ-165-00148	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GJ-165-00152	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GH-165-00207	SITE 146-ALAFIA/PEACE RIVERS, FLORIDA SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GJ-165-00209	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GJ-165-00231	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GJ-165-00233	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GH-165-00239	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GH-165-00249	SITE 146-ALAFIA/PEACE RIVERS, FLA. SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GH-165-00251	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22
NR-D1-GH-165-00284	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 x 22

## SITE MAPS - GEOGRAPHY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-D1-3H-165-00285	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 X 22
NR-D1-4J-176-00219	SITE 176-NEW ENGLAND	REGIONAL	17 X 22
NR-D1-4J-176-00220	SITE 176-NEW ENGLAND	REGIONAL	17 X 22
NR-D1-4J-176-00221	SITE 176-NEW ENGLAND	REGIONAL	17 X 22
NR-D1-4J-176-00222	SITE 176-NEW ENGLAND	REGIONAL	17 X 22
NR-D1-4J-176-00223	SITE 176-NEW ENGLAND	REGIONAL	17 X 22
NR-D1-4J-176-00224	SITE 176-NEW ENGLAND	REGIONAL	17 X 22
NR-D1-3H-993-00104	SITE 993-TITUSVILLE, FLORIDA SITE 997-CAPE KENNEDY, FLORIDA	REGIONAL	17 X 22
NR-D1-2J-994-00212	SITE 994-EL PASO, TEXAS	REGIONAL	17 X 22
NR-D1-2J-994-00256	SITE 994-EL PASO, TEXAS	REGIONAL	17 X 22
NR-D1-2J-994-00258	HIGH ALTITUDE AIRCRAFT, EL PASO TO TUCSON	REGIONAL	17 X 22
NR-D1-2J-995-00211	SITE 995-ANSON/SNYDER, TEXAS	REGIONAL	17 X 22
NR-D1-2J-996-00213	SITE 996-DALLAS/FT. WORTH, TEXAS	REGIONAL	17 X 22
NR-D1-2J-996-00253	SITE 996-DALLAS/FT. WORTH, TEXAS	REGIONAL	17 X 22
NR-D1-3H-997-00104	SITE 993-TITUSVILLE, FLORIDA SITE 997-CAPE KENNEDY, FLORIDA	REGIONAL	17 X 22

## **GEOGRAPHY**

### **SECTION 02 SITE DESCRIPTIONS**



SITE DESCRIPTIONS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-D2-GJ-018-00012	SITE 018-HAGERSTOWN (CENTRAL APPALACHIAN FIEDMONT), MARYLAND/PENNSYLVANIA/VIRGINIA
VR-D2-EJ-130-00053	SITE 130-SOUTHERN CALIF.
VR-D2-GH-164-00067	SITE 164-BOCA RATON/BELLE GLADE, FLORIDA
VR-D2-EJ-170-00063	SITE 170-SHEEP MOUNTAIN, WYOMING

## **GEOGRAPHY**

### **SECTION 04 MISSION SCREENING AND SUMMARY REPORTS**

## MISSION SCREENING AND SUMMARY REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D4-GJ-998-B0014	MISSION NO. 14 SITES 043, 046
NR-D4-EJ-998-B0021	MISSION NO. 21 SITES 002, 003, 040
NR-D4-GH-998-B0023	MISSION NO. 23 SITES 046, 095, 099, 105-108
NR-D4-GJ-993-B0025	MISSION NO. 25 SITES 043, 088
NR-D4-EJ-998-B0028	MISSION NO. 28 SITES 024, 114, 130
NR-D4-JK-998-B0029	MISSION NO. 29 SITES 040, 130
NR-D4-GJ-043-B0031	MISSION NO. 31 SITE 043
NR-D4-GH-998-B0034	MISSION NO. 34 SITES 099, 128, 138, 046
NR-D4-GH-998-B0040	MISSION NO. 40 SITES 099, 103, 104, 132, 133, 134, 137
NR-D4-130-B0042	MISSION NO. 42 SITE 130
NR-D4-GJ-998-B0053	MISSION NO. 53 SITES 046, 150, 142, 152, 153, 124, 151, 148, 992
NR-D4-GJ-998-B0054	MISSION NO. 54, SITES 044, 076, 085, 118, 144
NR-D4-GJ-165-B0964	MISSION NO. 964 SITE 165
NR-D4-GJ-998-B0065	MISSION NO. 65 SITES 46, 124, 142, 150, 151, 152, 161
NR-D4-GH-998-B0066	MISSION NO. 66 SITES 128, 162, 163, 164, 155, 132
NR-D4-EJ-998-B0073	MISSION NO. 73 SITES 020, 027, 048, 072, 130, 157
NR-D4-GH-998-B0079	MISSION NO. 79 SITES 173, 155, 164, 168, 174, 172
NR-D4-FH-998-B0084	MISSION NO. 84 SITES 178, 179
NR-D4-GH-998-B0085	MISSION NO. 85 SITES 146, 164, 165
NR-D4-GH-998-B0090	MISSION NO. 90 SITES 164, 165
NR-D4-GH-998-B0092	MISSION NO. 92 SITES 165, 164, 163, 169, 147, 146
NR-D4-GJ-998-B0093	MISSION NO. 93 SITES 165, 169, 145

MISSION SCREENING AND SUMMARY REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D4-GJ-998-B0095	MISSION NO. 95 SITES 165, 179
NR-D4-GJ-137-A0125	MISSION 125, EARTH RESOURCES SCREENING AND INDEXING REPORT, SITE 137
NR-D4-GJ-137-B0125	MISSION NO. 125 SITES 137
NR-D4-FJ-238-B0137	MISSION NO. 137 SITE 238

## TECHNICAL LETTER REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-D5-EJ-998-00118	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-118. REMOTE SENSOR IMAGERY IN URBAN RESEARCH - SOME POTENTIALITIES AND PROBLEMS. ERIC G. MOORE AND BARRY S. WELLAR, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. MAY 1968. CONTRACT NO. 14-08-0001-10654. STAR N68-25554.
VR-D5-GJ-043-00119	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-119. GENERATION OF HOUSING QUALITY DATA FROM MULTIBAND AERIAL PHOTOGRAPHS. BARRY S. WELLAR, DEPARTMENT OF GEOGRAPHY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. MAY 1968. CONTRACT NUMBER 14-08-0001-10654. STAR N68-25878.
VR-D5-GJ-043-00120	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-120. UTILIZATION OF MULTIBAND AERIAL PHOTOGRAPHS IN URBAN HOUSING QUALITY STUDIES. BARRY S. WELLAR, NORTHWESTERN UNIVERSITY, DEPARTMENT OF GEOGRAPHY, EVANSTON, ILLINOIS. MAY 1968. CONTRACT NUMBER 14-08-0001-10654. STAR N68-25422.
VR-D5-J0-000-00126	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-126. LAND EVALUATION STUDIES WITH REMOTE SENSORS IN THE INFRARED AND RADAR REGIONS. DAVID S. SIMONETT, CENTER FOR RESEARCH IN ENGINEERING SCIENCE, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS. JULY 1968. CONTRACT NUMBER W-12589.
VR-D5-J0-000-00130	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-130. EVALUATION OF MULTIPLE POLARIZED RADAR IMAGERY FOR THE DETECTION OF SELECTED CULTURAL FEATURES. ANTHONY J. LEWIS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. OCTOBER 1968. CONTRACT NUMBER W-12589. STAR N69-28151.
VR-D5-J0-000-00131	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-131. USES OF CONVENTIONAL AERIAL PHOTOGRAPHY IN URBAN AREAS: REVIEW AND BIBLIOGRAPHY. ASHRAF S. MANJI, NORTHWESTERN UNIVERSITY, DEPARTMENT OF GEOGRAPHY, EVANSTON, ILLINOIS. SEPTEMBER 1968. CONTRACT NUMBER W-12570. STAR N69-28596.
VR-D5-J0-000-00135	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-135. THERMAL INFRARED IMAGERY IN URBAN STUDIES. BARRY S. WELLAR, NORTHWESTERN UNIVERSITY, DEPARTMENT OF GEOGRAPHY, EVANSTON, ILLINOIS. DECEMBER 1968. CONTRACT NUMBER R-09-020-024. STAR N69-14344.

## TECHNICAL LETTER REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D5-30-000-00138	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-138. SIDE-LOOKING RADAR IN URBAN RESEARCH: A CASE STUDY. ERIC G. MOORE, NORTHWESTERN UNIVERSITY, DEPARTMENT OF GEOGRAPHY, EVANSTON, ILLINOIS. OCTOBER 1968. CONTRACT NUMBER R-09-020-024. STAR N69-16108.
NR-D5-GJ-165-00148	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-148. VEGETATIVE CHANGES CAUSED BY FIRE IN THE FLORIDA FLATWOODS AS OBSERVED BY REMOTE SENSING. W.T. MEALOR, JR., AND MERLE C. PRUNTY, JR., UNIVERSITY OF GEORGIA, DEPT. OF GEOGRAPHY, ATHENS, GEORGIA. CONTRACT NUMBER R-09-020-024(A/1).
NR-D5-EJ-140-00150	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-150. MULTI-SPECTRAL TECHNIQUES FOR GENERAL GEOLOGICAL SURVEYS EVALUATION OF A FOUR-BAND PHOTOGRAPHIC SYSTEM. DWIGHT F. CROWDER, U.S. GEOLOGICAL SURVEY, MENLO PARK, CALIFORNIA. MARCH 1969. CONTRACT NUMBER R-090-020-011.
NR-D5-3J-000-00151	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-151. SATELLITE CONFIRMATION OF SETTLEMENT SIZE COEFFICIENT. WALDO R. TOBLER, UNIVERSITY OF MICHIGAN, DEPT. OF GEOGRAPHY, ANN ARBOR, MICHIGAN. MAY 1969. CONTRACT NUMBER R-09-020-024.
NR-D5-EJ-130-00152	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-152. MAPPING MONTANE VEGETATION IN SOUTHERN CALIFORNIA FROM COLOR INFRARED IMAGERY. RICHARD A. MINNICH, LEONARD W. BOWDEN, AND ROBERT W. PEASE, UNIVERSITY OF CALIFORNIA, DEPT. OF GEOGRAPHY, RIVERSIDE, CALIFORNIA. AUGUST 1969. CONTRACT NUMBERS 09-020-024 AND W-12570.
NR-D5-EJ-130-00153	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-153. ANALYSIS OF URBAN RESIDENTIAL ENVIRONMENTS USING COLOR INFRARED AERIAL PHOTOGRAPHY - AN EXAMINATION OF SOCIOECONOMIC VARIABLES AND PHYSICAL CHARACTERISTICS OF SELECTED AREAS IN THE LOS ANGELES BASIN. ROBERT H. MULLENS, UNIVERSITY OF CALIF., DEPT. OF GEOGRAPHY, LOS ANGELES CALIFORNIA. (WITH ADDENDUM) AN APPLICATION OF THE CONCEPTS OF THE LOS ANGELES RESIDENTIAL ENVIRONMENT STUDY TO THE ONTARIO-UPLAND REGION OF CALIFORNIA. LESLIE W. SINGER, UNIVERSITY OF CALIFORNIA, DEPT. OF GEOGRAPHY, LOS ANGELES, CALIFORNIA, MAY 1969. CONTRACT NUMBER W-12570.
NR-D5-30-000-00154	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-154. GEOGRAPHIC APPLICATIONS PROGRAM. REPORTS COMPLETED AND IN PREPARATION. ROBERT H. ALEXANDER, U.S. GEOLOGICAL SURVEY, GEOGRAPHIC APPLICATIONS PROGRAM, WASHINGTON, D.C. AUGUST 1969. CONTRACT NUMBER W-12570.

## TECHNICAL LETTER REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D5-EJ-998-00156	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-156. GEOGRAPHIC ANALYSIS OF MULTIPLE SENSOR DATA FROM THE NASA/ USGS EARTH RESOURCES PROGRAM. RICHARD F. PASCUCCI, GARY W. NORTH, ET AL. RAYTHEON CO., AUTOMETRIC OPERATION, ALEXAND- RIA, VIRGINIA MAY 1969. CONTRACT NUMBER W-12589.
NR-D5-4J-176-00163	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-163. GEOGRAPHIC EVALUATION OF RADAR IMAGERY OF NEW ENGLAND. ROBERT B. SIMPSON, DARTMOUTH COLLEGE, DEPT. OF GEOGRAPHY, HANOVER, NEW HAMPSHIRE. SEPTEMBER 1969. CONTRACT NUMBER W-12572.

## **GEOGRAPHY**

### **SECTION 07 SUMMARY REPORTS**



## SUMMARY REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D7-00-000-00011	ANNOTATED BIBLIOGRAPHY ON THE USE OF SIDE-LOOKING AIRBORNE RADAR (SLAR) IMAGERY FOR ENGINEERING SOIL STUDIES. PART 1 - UNCLASSIFIED LITERATURE, DAVID J. BARR, SCHOOL OF CIVIL ENGINEERING, PURDUE UNIVERSITY, LAFAYETTE, INDIANA. PREPARED FOR U.S. ARMY ENGINEER TOPOGRAPHIC LABORATORIES, FORT BELVOIR, VIRGINIA. CONTRACT NO. DA-44-009-AMC-1847(X).
NR-D7-00-000-00032	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES. FORESTRY-AGRICULTURE-GEOGRAPHY-NO. 1. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR 09-012-909. STAR N69-27962.
NR-D7-00-000-00035	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES. METEOROLOGY-NO. 4. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR 09-012-909. STAR N69-28102.
NR-D7-00-000-00042	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES. NAVIGATION AND TRAFFIC CONTROL-NO. 11. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NO. NSR 09-012-909. STAR N69-27963.
NR-D7-00-000-00051	SIGNIFICANT ACHIEVEMENTS IN SATELLITE METEOROLOGY 1958-1964. NASA SP-96. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C. 1966.

## **GEOGRAPHY**

### **SECTION 08 - SUBJECT RELATED DOCUMENTS**

## SUBJECT RELATED DOCUMENTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D8-MK-000-00031*	DEEP SOIL TEMPERATURE TRENDS AND URBAN EFFECTS AT PARIS. JACQUES DETTWILLER, METEOROLOGIE NATIONALE, PARIS, FRANCE, PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 9, NO. 1, FEB, 1970. PP.178-180.
NR-D8-JO-000-00034	CONFERENCE ON SPACE, SCIENCE, AND URBAN LIFE. MARCH 28-30, 1963. DUNSMUIR HOUSE CONFERENCE WAS SUPPORTED BY THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AND THE FORD FOUNDATION IN COOPERATION WITH THE UNIVERSITY OF CALIFORNIA AND THE CITY OF OAKLAND, OFFICE OF SCIENTIFIC AND TECHNICAL INFORMATION, WASHINGTON, D.C. NASA SP-37.
NR-D8-JO-000-00079	SOME APPLICATIONS OF RADAR RETURN DATA TO THE STUDY OF TERRESTRIAL AND OCEANIC PHENOMENA. CRES TECHNICAL REPORT 61-3. W.J. PIERSON, JR., NEW YORK UNIVERSITY; B.B. SCHEPS, U.S. ARMY; GIMRADA, AND D.S. SIMONETT, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSR-17-004-003 AND NONR 285(57). PUBLISHED IN PROCEEDINGS OF THE THIRD GODDARD MEMORIAL SYMPOSIUM ON SCIENTIFIC EXPERIMENTS FOR MANNED ORBITAL FLIGHT, 18-19 MARCH 1965, WASHINGTON, D.C., P 87-137 STAR N68-10284.
NR-D8-JO-000-00082	TWO TROPICAL STORMS VIEWED BY APOLLO 7. STANLEY D. SOULES, NATIONAL ENVIRONMENTAL SATELLITE CENTER, ESSA, AND KENNETH M. NAGLER, WEATHER BUREAU, ESSA, WASHINGTON, D.C. REPRINTED FROM BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY, V.50, NO.2, FEBRUARY 1969, P 58-65.
NR-D8-JO-000-00164	AIR-POLLUTION-MONITORING INSTRUMENTATION. NASA SP-5072. ALVIN LIEBERMAN AND PETER SCHIPMA, IIT RESEARCH INSTITUTE TECHNOLOGY CENTER, CHICAGO, ILLINOIS. 1969. CONTRACT NO. NASW-1716.
NR-D8-JO-000-00173	METEOROLOGY OF AIR POLLUTION. DONALD H. PACK, U.S. DEPT. OF COMMERCE, WEATHER BUREAU, WASHINGTON, D.C. PUBLISHED IN SCIENCE, VOL. 146, NO. 3648, NOVEMBER 1964. PP.1119-1127.
NR-D8-JO-000-00219	STUDY OF AIR POLLUTANT DETECTION BY REMOTE SENSORS. NASA CR-1380. REPORT NO. GDCUBE68-011. C.B. LUDWIG, R. BARTLE, AND M. GRIGGS, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF. JULY 1969. CONTRACT NUMBER NAS 12-630. STAR N69-31961.
NR-D8-JO-000-00237	AERIAL-PHOTO INTERPRETATION IN CLASSIFYING AND MAPPING SOILS. U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE WASHINGTON, D.C. PUBLISHED IN AGRICULTURAL HANDBOOK NO 294, OCTOBER 1966.

## SUBJECT RELATED DOCUMENTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D8-30-000-00290*	AIRPHOTO USE IN RESOURCE MANAGEMENT. A SURVEY OF NON-FEDERAL PURCHASERS OF AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE AIRPHOTOS. ORVILL E. KRAUSE, U.S. DEPT. OF AGRICULTURE, ECONOMIC RESEARCH SERVICE, WASHINGTON, D.C. MAY 1969. PUBLISHED IN AGRICULTURE INFORMATION BULLETIN NO. 376. STAR N69-35256.
NR-D8-30-000-00318*	A PHOTOGRAPHIC SUMMARY OF THE EARTH'S CLOUD COVER FOR THE YEAR 1967. JACK KORNFIELD AND A. FREDERICK HASLER, WISCONSIN UNIVERSITY, SPACE SCIENCE AND ENGINEERING, MADISON, WISCONSIN. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 8, AUG. 1969, PP.687-700.
NR-D8-30-000-00334*	THE EARTH'S GRAVITY FIELD AS DEDUCED FROM THE DOPPLER TRACKING OF FIVE SATELLITES. W.H. GUIER AND R.R. NEWTON, JOHNS HOPKINS UNIVERSITY, APPLIED PHYSICS LAB., SILVER SPRING, MD. PUBLISHED IN GEOPHYSICAL RESEARCH, VOL. 70, NO. 18, SEPT. 1965, PP.4613-4626.
NR-D8-GH-128-00343*	PASSIVE MICROWAVE SENSING OF THE EARTH'S ENVIRONMENT - A BIBLIOGRAPHY WITH ABSTRACTS. TECHNICAL REPORT NO. RSC-03. JERRY A. RICHMOND, TEXAS A + M UNIVERSITY, REMOTE SENSING CENTER, COLLEGE STATION, TEXAS, SEPTEMBER 1969.
NR-D8-4J-000-00348*	THE EFFECT OF AIR POLLUTANTS ON VISIBILITY IN FOG AND HAZE AT NEW YORK CITY. R.P. MCNULTY, 256 WEST HILL RD., NEWINGTON, CONN. PUBLISHED IN ATMOSPHERIC ENVIRONMENT, VOL. 2, NO. 6, NOV. 1968. PP.625-628.
NR-D8-30-000-00492*	REVIEW OF NEW GEOGRAPHIC METHODS AND TECHNIQUES. QUESTIONNAIRE SURVEY. WATER RESOURCES PLANNING AND MANAGEMENT. RECENT TRENDS IN REMOTE SENSING TECHNOLOGY. FINAL REPORT. (APPENDIX C). ROBERT J. TATA, ET AL., FLORIDA ATLANTIC UNIVERSITY, BOCA RATON, FLA. OCTOBER 1969. CONTRACT NUMBER DAAK02-68-C-0219.
NR-D8-30-000-00493*	REVIEW OF NEW GEOGRAPHIC METHODS AND TECHNIQUES. FINAL REPORT. ROBERT J. TATA, FLORIDA ATLANTIC UNIVERSITY, BOCA RATON, FLA. DECEMBER 1969. CONTRACT NO. DAAK02-68-C-0219.

## **GEOGRAPHY**

### **SECTION 09 - TECHNICAL REPORTS**

## TECHNICAL REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-D9-30-000-00008	FIVE PAPERS ON REMOTE SENSING AND URBAN INFORMATION SYSTEMS. WILLIAM L. GARRISON, AZRIEL ROSENFELD, ET AL. TECHNICAL REPORT NO. 1, DEPARTMENT OF GEOGRAPHY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS, APRIL 1966. CONTRACT NUMBER NONR 1228(37).
VR-D9-30-000-00012	A MODEL FOR THE AREAL PATTERN OF RETAIL AND SERVICE ESTABLISHMENTS WITHIN AN URBAN AREA. MICHAEL F. DACEY, NORTHWESTERN UNIVERSITY, DEPARTMENT OF GEOGRAPHY, URBAN AND TRANSPORTATION INFORMATION SYSTEMS, TECHNICAL REPORT NO. 2. APRIL 1966. CONTRACT NO. NONR-1228(37)
VR-D9-30-000-00020	THE STRUCTURE OF TRANSPORTATION NETWORKS. PREPARED BY THE TRANSPORTATION CENTER, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS, FOR THE U.S. ARMY, TRANSPORTATION RESEARCH COMMAND, FORT EUSTIS, VIRGINIA. TCRC TECHNICAL REPORT 62-11 MAY 1962. CONTRACT NO. DA-44-177-TC-685. STAR N62-15685.
VR-D9-4J-176-00038	ORTHOPHOTOGRAPHY - AN OPTIMUM DATA BASE. GEORGE L. LOELKES, JR., RAYTHEON CO., ALEXANDRIA, VA. PAPER PRESENTED AT THE AMERICAN SOCIETY OF PHOTOGRAMMETRY, AND AMERICAN CONGRESS OF SURVEYING AND MAPPING, PORTLAND, OREGON, SEPT. 1960, CONVENTION PROCEEDINGS P.P. 149-172.
VR-D9-30-000-00042	SPATIAL DATA SYSTEMS: ORGANIZATION OF SPATIAL DATA TECH. REPORT NO. 4. KENNETH DUEKER, DEPARTMENT OF GEOGRAPHY, NORTHWESTERN UNIVERSITY, EVANSTON, ILL. JUNE 18, 1967. CONTRACT NO. NONR 1228(37) STAR N67-31145.
VR-D9-30-000-00043	SPATIAL DATA SYSTEMS: SYSTEMS CONSIDERATIONS TECH. REPORT NO. 5. KENNETH DUEKER, DEPARTMENT OF GEOGRAPHY, NORTHWESTERN UNIVERSITY, EVANSTON, ILL. JUNE 18, 1967. CONTRACT NO. NONR 1228(37)
VR-D9-30-000-00044	SPATIAL DATA SYSTEMS: SPECIAL TOPICS. TECHNICAL REPORT NO. 6. KENNETH J. DUEKER, DEPARTMENT OF GEOGRAPHY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. DECEMBER 1966. CONTRACT NUMBER NONR 1228(37). STAR N69-74769
VR-D9-4J-176-00063*	STUDY OF REACTIONS OF SULFUR IN STACK PLUMES. FIRST ANNUAL REPORT, APRIL 1967 - APRIL 1968. REPORT NO. GCA-TR-68-19-G. A.W. BERGER, C.E. BILLINGS, ET AL., GCA CORP., TECHNOLOGY DIV., BEDFORD, MASS. MARCH 1969. CONTRACT NO. PH-86-67-125

## TECHNICAL REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D9-FK-000-00064*	THE VERTICAL DISTRIBUTION OF PARTICULATE MATTER NEAR THE SURFACE OF THE EARTH. JAMES M. ROSEN, SCHOOL OF PHYSICS AND ASTRONOMY, UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA. PUBLISHED IN JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION, VOL. 19, NO. 2, FEB. 1969. PP.106-108. MICROFICHE AND HARD COPY.
NR-D9-JO-000-00115*	HIGHWAYS AND RESOURCES WITH CONSERVATION AND PRESERVATION. WILLIAM T. PRYOR, U.S. DEPT. OF TRANSPORTATION, WASHINGTON, D.C. PAPER PRESENTED AT AMERICAN PHOTOGRAMMETRIC SOCIETY AND AMERICAN CONGRESS OF SURVEYING AND MAPPING, PORTLAND, OREGON. SEPT. 1969, PP.242-250.
NR-D9-JO-000-00123*	ORGANIZATION OF THE CONVEYANCE OF SATELLITE INFORMATION INTO BANKS OF GEOGRAPHIC CHARTS. V.G. KONSTANTINOVA, USSR. TRANSLATED FROM GIDROMETEOROLOGICHESKIY NAUCHNO-ISSLEDOVATELSKIY TSENTR SSSR. TRUDY, NO. 11, 1967. PP.169-174. MICROFICHE COPY. STAR N70-14796.
NR-D9-JO-000-00162*	MECHANISMS OF AEROSOL PARTICLE DISPERSION IN THE FREE ATMOSPHERE. TRANSLATED FROM RUSSIAN. G.M. PETROVA, ET AL., USSR, SEPTEMBER 1969. MICROFICHE COPY. STAR N70-15127.
NR-D9-JO-000-00163*	AERIAL ANALYSIS OF VEGETATION IN ARID ZONES. REPORT NO. FSTC-HT-23-735-68. B.V. VINOGRADOV, USSR. 1966-RUSSIAN, 1969-TRANSLATION. MICROFICHE COPY.
NR-D9-EJ-000-00165*	PHYSICAL GEOGRAPHY AND MILITARY ENVIRONMENT IN A TRANSECT OF THE UTAH AND COLORADO ROCKIES. ARMY NATICK LABS, SERIES ES-46, REPORT NO. TR-69-73-ES, WILL F. THOMPSON, U.S. ARMY NATICK LABS., NATICK, MASS. MAY 1969. MICROFICHE COPY. STAR N70-11799.
NR-D9-JO-000-00190*	AIRBORNE DUST COLLECTIONS OVER THE NORTH ATLANTIC. D.W. PARKIN, ET AL., SCHOOL OF PHYSICS, BATH UNIVERSITY, BATH, ENGLAND. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 75, NO. 9, MARCH 1970. PP.1782-1793.
NR-D9-JO-000-00203*	NEW ACHIEVEMENTS IN THE USE OF AERIAL PHOTOGRAPHY FOR THE GEOGRAPHIC STUDY OF THE TERRAIN. L.M. GOLDMAN, CENTRAL SCIENTIFIC RESEARCH INSTITUTE FOR GEODESY, USSR. PUBLISHED IN ISPOLZOVANIYE TOPOGRAFICHESKIKH KARTOGRAFIKHIKH ISSLEDOVANIY, MOSCOW, 1958, PP.31-36. MICROFICHE COPY. STAR N64-11350.

## TECHNICAL REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D9-30-000-00208*	ADVANCED PHOTOGRAMMETRIC TECHNIQUES FOR HIGHWAY INTERCHANGE GEOMETRY. FINAL TECHNICAL REPORT, MARCH 1967-JAN. 1969. KAILASH C. CHOPRA, OHIO STATE UNIVERSITY, COLUMBUS, OHIO. JAN. 1969. MICROFICHE COPY. STAR N70-13424.
NR-D9-30-000-00215*	USING AN AIRBORNE INFRARED IMAGING SYSTEM TO LOCATE SUB-SURFACE COAL FIRES IN CULM BANKS. W.M. KNUTH, HRB-SINGER, INC., ENVIRONMENTAL SCIENCES BRANCH, STATE COLLEGE, PA. PUBLISHED IN PENNSYLVANIA ACADEMY OF SCIENCE, PROCEEDINGS, VOL. 42, 1969. PP.152-156.
NR-D9-30-000-00231	USE OF SIDE-LOOKING AIRBORNE RADAR IMAGERY FOR ENGINEERING SOILS STUDIES. FINAL TECHNICAL REPORT. DAVID J. BARR, SCHOOL OF CIVIL ENGINEERING, PURDUE UNIVERSITY, LAFAYETTE, INDIANA. JUNE 1968. PREPARED FOR GEOGRAPHIC SCIENCES DIV., U.S. ARMY ENGINEER TOPOGRAPHIC LABORATORIES, FORT BELVOIR, VIRGINIA. CONTRACT NUMBER DA-44-009-AMC-1847(X). STAR N69-40170
NR-D9-30-000-00244*	AERIAL PHOTOGRAPHY FOR DETERMINING LAND USE. V.G. PANSE, V.V.R. MURTY, ET AL. INSTITUTE OF AGRICULTURAL RESEARCH STATISTICS, NEW DELHI, INDIA. PUBLISHED IN SOCIETY OF AGRICULTURAL STATISTICS, VOL. 19, NO. 2, DEC. 1967. PP.25-35.
NR-D9-30-000-00248	ABSORPTION SPECTROSCOPY EXPERIMENT - REMOTE SENSING OF TRACE GASES FROM ORBITAL ALTITUDES. FINAL REPORT, TR-68-56. BARRINGER RESEARCH LIMITED, ONTARIO, CANADA. FEBRUARY 1968. CONTRACT NUMBER NAS 9-7241. STAR N68-21948.
NR-D9-30-000-00262	PHOTOGRAMMETRY AS AN AID TO CANADIAN ECONOMIC AND TECHNICAL DEVELOPMENT. AFIFI H. SOLIMAN, MCMASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA. PUBLISHED IN THE AMERICAN SOCIETY OF PHOTOGRAMMETRY, 1968 SEMI-ANNUAL MEETING, SAN ANTONIO, TEXAS. SEPT. 29-OCT. 3.
NR-D9-30-000-00267	PICTOMAPS GO SOUTH OF THE BORDER. SAMUEL T. ALVARADO, U.S. ARMY INTER AMERICAN GEODETIC SURVEY, FORT CLAYTON, CANAL ZONE. PUBLISHED IN THE AMERICAN SOCIETY OF PHOTOGRAMMETRY, 1968 SEMI-ANNUAL MEETING, SAN ANTONIO, TEXAS. SEPT. 29-OCT. 3.
NR-D9-30-000-00286	APPLICATION OF COLOR-COMBINED MULTIPLE POLARIZATION RADAR IMAGES TO GEOSCIENCE PROBLEMS. CHES TECHNICAL REPORT 61-27, D.S. SIMONETT, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-7-004-003. PUBLISHED IN COMPUTER APPLICATIONS IN THE EARTH SCIENCES: COLLOQUIUM ON CLASSIFICATION PROCEDURES, COMPUTER CONTRIBUTION 7, P 19-23, 1966. STATE GEOLOGICAL SURVEY, UNIVERSITY OF KANSAS, LAWRENCE. STAR N69-30696



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ACCESSION NUMBER	DESCRIPTION
NR-D9-30-000-00287	IMPLEMENTATION OF PATTERN RECOGNITION TECHNIQUES AS APPLIED TO GEOSCIENCE INTERPRETATION, CRES TECHNICAL REPORT 61-28, G.W. DALKE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003, PUBLISHED IN COMPUTER APPLICATIONS IN THE EARTH SCIENCES; COLLOQUIUM ON CLASSIFICATION PROCEDURES, COMPUTER CONTRIBUTION 7, P 24-29, 1966, STATE GEOLOGICAL SURVEY, UNIVERSITY OF KANSAS, LAWRENCE.
NR-D9-30-000-00292	FUTURE AND PRESENT NEEDS OF REMOTE SENSING IN GEOGRAPHY, CRES REPORT 61-12, D.S. SIMONETT, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003, A PAPER PRESENTED TO THE FOURTH SYMPOSIUM ON REMOTE SENSING OF THE ENVIRONMENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, APRIL 1966. STAR N66-37521.
NR-D9-30-000-00296	ORBITAL REMOTE SENSORS - DATA PROCESSING FOR GEOSCIENCE INVESTIGATIONS, CRES TECHNICAL REPORT 61-29, G.W. DALKE AND J.W. ROUSE, JR., UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR 17-004-003, AMERICAN ASTRONAUTICAL SOCIETY SYMPOSIUM, TRANSACTIONS, VOLUME 11, JUNE 1967, P MM-23-1 TO MM-23-20.
NR-D9-30-000-00322	USE OF ORBITAL RADARS FOR GEOSCIENCE INVESTIGATIONS, CRES TECHNICAL REPORT 61-8, J.W. ROUSE, JR., W.P. WAITE AND R.L. WALTERS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR 17-004-003, PRESENTED AT THE THIRD SPACE CONGRESS MEETING, COCOA BEACH, FLORIDA, MARCH 1965, PUBLISHED IN THE PROCEEDINGS, P 77-94.
NR-D9-30-000-00326	POTENTIAL RESEARCH AND EARTH RESOURCE STUDIES WITH ORBITING RADARS; RESULTS OF RECENT STUDIES, CRES REPORT 61-32, R.K. MOORE AND D.S. SIMONETT, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSR-17-004-003, NAS 9-7175, NSF GK-1153, N62305-67-C-0044, AND 14-08-0001-10848. PUBLISHED AS AIAA PAPER NO. 67-767, 4TH ANNUAL MEETING AND TECHNICAL DISPLAY, OCTOBER 23-27, 1967, ANAHEIM, CALIFORNIA.
NR-D9-30-000-00328	LAND EVALUATION STUDIES WITH REMOTE SENSORS IN THE INFRARED AND RADAR REGIONS, D.S. SIMONETT, UNIVERSITY OF KANSAS, DEPARTMENT OF GEOGRAPHY, LAWRENCE, KANSAS. CONTRACT NUMBER USGS 14-08-0001-10848, REPRINTED FROM LAND EVALUATION, PAPERS OF A CSIRO SYMPOSIUM ORGANIZED IN COOPERATION WITH UNESCO, AUGUST 26-31, 1966.

## TECHNICAL REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D9-EJ-000-00332	ANGEL'S EYE VIEW OF ARIZONA. HERBERT A. TIEDEMANN, NASA, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. PUBLISHED IN ARIZONA HIGHWAYS, V.45, NO.4, APRIL 1969, PAGES 10-31.
NR-D9-JO-000-00348	TEOTIHUACAN, MEXICO, AND ITS IMPACT ON REGIONAL DEMOGRAPHY. PUBLISHED IN SCIENCE, VOL. 162, NO. 3856, P.872-877, NOV. 22, 1968. JEFFREY R. FARSONS, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
NR-D9-JO-000-00377	AERIAL AND ORBITAL IMAGES IN URBAN ENVIRONMENT STUDIES. FRANK J. WOBBER, INTERNATIONAL BUSINESS MACHINES CORP. FEDERAL SYSTEMS DIVISION, BETHESDA, MARYLAND, JULY 1969. PHOTOGRAPHIC APPLICATIONS IN SCIENCE, TECHNOLOGY AND MEDICINE. VOL. 3, NO. 12, PP.21-27.
NR-D9-JO-000-00391	RADIATION MEASUREMENTS OVER SIMULATED PLANE SOURCES. F.J. DAVIS AND P.W. REINHARDT, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE. PUBLISHED IN HEALTH PHYSICS, V.8, JUNE 1962, P.233-243.
NR-D9-EJ-998-00403	TERRESTRIAL MULTISPECTRAL PHOTOGRAPHY. AFCRL-67-0076, J.F. CRONIN, AIR FORCE CAMBRIDGE RESEARCH LABORATORIES, BEDFORD, MASSACHUSETTS. CONTRACT NUMBER R22-13-012, STAR N67-27656.
NR-D9-EJ-130-00413	AN APPROACH TO THE DETECTION OF AIR POLLUTION FROM SPACE. F.F. GORSCHBOTH, N.W. WOODRICK, AND F.J. WOBBER, IBM CORP., FEDERAL SYSTEMS DIV., BETHESDA, MD. APRIL 1968.
NR-D9-FH-175-00419	A STUDY OF AIR POLLUTION SOURCES AS VIEWED BY EARTH SATELLITES. DARRYL RANDERSON, DEPARTMENT OF METEOROLOGY, TEXAS A + M UNIVERSITY, COLLEGE STATION, TEXAS. REPRINTED FROM APCA JOURNAL, VOL. 18, NO. 4, APRIL 1968. PP.249-253.
NR-D9-JO-000-00422	REMOTE MULTISPECTRAL SENSING OF EARTH RESOURCES. ENGINEERING RESEARCH REPORT NO. 660206, REVISION A. ROMAN K.C. JOHNS AND WILL CONNELL, HYCON, MONROVIA, CALIFORNIA, DEC. 2, 1968.
NR-D9-EJ-998-00425	ENVIRONMENTAL STUDIES USING EARTH ORBITAL PHOTOGRAPHY. F.J. WOBBER, IBM CORP., FEDERAL SYSTEMS DIV., GAITHERSBURG, MD. PUBLISHED IN PHOTOGRAMMETRIA, 24 (1969) P.107-165).
NR-D9-EJ-998-00429	RESOURCE SURVEY BY SATELLITE, SCIENCE FICTION COMING TRUE. R.N. COLWELL, UNIVERSITY OF CALIFORNIA, SCHOOL OF FORESTRY, BERKELEY, CALIFORNIA, V.I. MYERS, AGRICULTURAL RESEARCH SERVICE, WESLACO, TEXAS, ET AL, PUBLISHED IN YEARBOOK OF AGRICULTURE 1968. PP.13-19.

## TECHNICAL REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-D9-JO-000-00433	REMOTE DETECTION OF TERRAIN FEATURES FROM NIMBUS I HIGH RESOLUTION INFRARED RADIOMETER NIGHTTIME MEASUREMENTS. REPORT NO. TN D-4603. JEAN PCUQUET, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. JULY 1968.
VR-D9-EJ-998-00435	AERIAL AND ORBITAL IMAGES IN URBAN ENVIRONMENT STUDIES. FRANK J. WOBBER, IBM, FEDERAL SYSTEMS CENTER, GAITHERSBURG, MARYLAND. PUBLISHED IN PHOTOGRAPHIC APPLICATIONS IN SCIENCE, TECHNOLOGY AND MEDICINE, VOL. 3, NO. 13, JULY-SEPT. 1969, PART I, PP.21-27, PART II, PP.33-39.
VR-D9-JO-000-00438	SPACE PHOTOGRAPHY FOR THE GEOGRAPHIC STUDY OF THE EARTH. B.V. VINOGRADOV, TRANSLATED FROM BULLETIN OF THE ALL UNION GEOGRAPHIC SOCIETY, NO. 2, 1966, PP.101-111. STAR N68-17540.
VR-D9-EJ-000-00445*	REMOTE AND IN SITU TEMPERATURE MEASUREMENTS OF LAND AND WATER SURFACES. WILLIAM E. MARLATT, COLORADO STATE UNIV., FORT COLLINS, COLORADO. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 6, APRIL 1967. PP.272-279.
VR-D9-JO-000-00514	RUSSIAN DATA ON SPECTRAL REFLECTANCE OF VEGETATION, SOIL AND ROCK TYPES. FINAL TECHNICAL REPORT. DIETER STEINER AND THOMAS GUTERMANN, UNIVERSITY OF ZURICH, DEPT. OF GEOGRAPHY, ZURICH, SWITZERLAND. NOVEMBER 1966. STAR X67-21462.
VR-D9-JO-000-00530*	EXPERIENCE OF ORGANIZATION AND METHODS OF TOPOGRAPHIC INTERPRETA--ETC. (U) N.A. STUPIN, U.S. AIR FORCE, AERONAUTICAL CHART AND INFORMATION CENTER, CARTOGRAPHY DIV., ST. LOUIS, MISSOURI. REPRINTED FROM GEODEZITA I KARTOGRAFIYA, 1966, PP.43-46. MICROFICHE COPY. STAR N69-15910.
VR-D9-JO-000-00533*	A COMPARISON OF MICRODENSITOMETRY AND TV WAVEFORM ANALYSIS AS EXPRESSIONS OF OBSERVED LANDSCAPE, ETC. NELSON R. NUNNALLY, FLORIDA ATLANTIC UNIVERSITY, DEPT. OF GEOGRAPHY, BOCA RATON, FLORIDA. AUGUST 1968. CONTRACT NUMBER NONR 4761(00). MICROFICHE AND HARD COPY. STAR N68-35378
VR-D9-JO-000-00534*	WAVEFORM ANALYSIS OF GEOGRAPHIC PATTERNS RECORDED ON VISIBLE AND INFRARED IMAGERY. RICHARD E. WITMER, FLORIDA ATLANTIC UNIVERSITY, DEPT. OF GEOGRAPHY, BOCA RATON, FLORIDA. SEPT. 1967. CONTRACT NO. NONR 4761(00). MICROFICHE COPY. STAR N68-11140.

## TECHNICAL REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-D9-30-000-00551	METEOROLOGY AND URBAN AIR POLLUTION. ROBERT A. MCCORMICK ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, WASHINGTON, D.C. PUBLISHED IN METEOROLOGICAL ORGANIZATION BULLETIN, VOL. 18, NO. 3, JULY 1969. PP.155-165.
VR-D9-30-000-00610*	GROUND TEMPERATURE UNDER NATURAL AND MAN-MADE RESERVOIRS IN THE IGARKA REGION. S.G. TSVETKOVA, USSR. TRANSLATED FROM MATERIALY K UCHENIIA O MERZLYKH ZONAKH ZEMNOI KORY. PUBLISHED BY AKADEMIIA NAUK SSSR, INSTITUT MERZLOTOVEDENIA, MOSCOW, 1961. PP.36-65. STAR N70-15002. MICROFICHE COPY.
VR-D9-30-000-00611*	USE OF COLOR AERIAL PHOTOGRAPHY FOR PAVEMENT EVALUATION STUDIES IN MAINE. TECHNICAL PAPER 68-6R. E.G. STOECKELER, MAINE STATE HIGHWAY COMMISSION, MATERIALS AND RESEARCH DIV., AUGUSTA, MAINE. NOVEMBER 1968. STAR N69-35418.
VR-D9-30-000-00616	THE USE OF LANDSAT DATA IN AIR POLLUTION STUDIES. P.M. HAMILTON, CENTRAL ELECTRONIC RESEARCH LABORATORIES, SURREY, ENGLAND. PUBLISHED IN AIR AND WATER POLLUTION INT. J., PERGAMON PRESS 1966. VOL. 1, PP.427-434.
VR-D9-EJ-998-00631*	VARIATIONS IN THE SIZE DISTRIBUTIONS OF SULFUR-CONTAINING COMPOUNDS IN URBAN AEROSOLS. F.L. LUDWIG AND ELMER ROBINSON, STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIF. PUBLISHED IN ATMOSPHERIC ENVIRONMENT, VOL. 2, NO. 1, JAN. 1968. PP.12-23.
VR-D9-EJ-130-00652*	GROWING IMPORTANCE OF URBAN GEOLOGY. GEOLOGICAL SURVEY CIRCULAR 487. JOHN T. MCGILL, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1964.
VR-D9-30-000-00659*	GEOGRAPHIC CORRELATIONS IN DISTANT EXTRAPOLATION OF INTERPRETATION CHARACTERISTICS OF LANDSCAPE ANALOGS. B.V. VINOGRADOV, USSR. TRANSLATION OF AKADEMIIA NAUK SSSR, LABORATORIEA AEROMETODOV, PRIMENENIE AERO METODOV DLYA UCHENIIA, 1962. PP.114-143. STAR N70-16958. MICROFICHE COPY.
VR-D9-30-000-00663*	PHYSICAL GEOGRAPHY RECONNAISSANCE - WEST PAKISTAN COASTAL ZONE. RODMAN E. SNEAD, UNIVERSITY OF NEW MEXICO, DEPT. OF GEOGRAPHY, ALBUQUERQUE, NEW MEXICO. MAY 1969. CONTRACT NUMBER NONR-1575(03). MICROFICHE COPY. STAR N69-35752.
VR-D9-30-000-00667*	STUDY OF THE IDENTIFICATION OF SMALL TOPOGRAPHIC OBJECTS ON LARGE-SCALE AERIAL PHOTOGRAPHS. L.M. GOLDMAN, AIR FORCE SYSTEMS COMMAND, WRIGHT-PATTERSON AFB, OHIO. PUBLISHED IN CENTRAL SCIENTIFIC RESEARCH INSTITUTE OF GEODESY, AERIAL PHOTOGRAPHY, AND CARTOGRAPHY. TRANSACTIONS, MOSCOW, 1964. NO. 149, PP.127-139. MICROFICHE COPY. STAR N69-35956.

## TECHNICAL REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D9-30-000-00673	*RADIOPROFILOGRAPH AND ITS APPLICATION IN AIRBORNE RADIO LEVELING. A.V. BORODIN AND A.G. IVANOV, MOSCOW, USSR. PUBLISHED IN GEODEZIYA I KARTOGRAFIYA, NO. 12, 1968. PP.36-43. STAR N69-36767.
NR-D9-30-000-00682	*RADIOTRACER PROCEDURES FOR MECHANISTIC STUDIES IN AIR POLLUTION RESEARCH. REPORT NO. RI 7304. MARVIN L. WHISMAN AND BASIL DIMITRIADES, U.S. BUREAU OF MINES, BARTLESVILLE, OKLA. OCTOBER 1969. STAR N69-36536.
NR-D9-4J-176-00706	*SEASONAL CHANGE REVEALED BY TIME-LAPSE PHOTOGRAPHY. ROLAND J. FRODICH, ARMY NATICK LABS., NATICK, MASS. MARCH 1967. MICROFICHE COPY. STAR N67-32684.
NR-D9-3J-124-00715	QUANTITATIVE REMOTE SENSING OF WATER POLLUTION. FRANK B. SILVESTRO, CORNELL AERONAUTICAL LAB., INC., BUFFALO, N.Y. PRESENTED AT THE 15TH ANNUAL TECHNICAL MEETING OF THE INSTITUTE OF ENVIRONMENTAL SCIENCES AT ANAHEIM, CALIFORNIA. APRIL 1969.
NR-D9-FH-998-00721	*AN APPROACH TO THE DETECTION OF AIR POLLUTION FROM SPACE. F.F. GORSCH 3TH, N.W. WOODRICK, AND F.J. WOBBER, IBM FEDERAL SYSTEMS DIV., BETHESDA, MARYLAND. PRESENTED BEFORE THE 49TH ANNUAL JOINT MEETING OF THE AMERICAN GEOPHYSICAL UNION AND THE AMERICAN METEOROLOGICAL SOCIETY, WASHINGTON, D.C. APRIL 8-11, 1968.
NR-D9-30-000-00743	*EXPERIENCE IN MAKING USE OF SPECTROZONAL PHOTOGRAPHS IN A TOPOGRAPHIC SURVEY ON A 1:25,000 SCALE. REPORT NO. FSTC-HT-23-669-68. B.I. IGNATYEV, RUSSIA. TRANSLATION OF GEODEZIYA I KARTOGRAFIYA (USSR) NO. 1, JAN. 1967. PP.43-45. MICROFICHE COPY.
NR-D9-30-000-00748	*APPLICATION OF PHOTOGRAMMETRY TO AIR POLLUTION RESEARCH. SIA, VERESS, UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON. PRESENTED AT AMERICAN SOCIETY OF PHOTOGRAMMETRY, PORTLAND, OREGON, SEPT. 1969, PAPERS, PP.341-357.
NR-D9-30-000-00752	*THE ROLE OF SOILS IN THE INTERPRETATION OF ARID-ZONE LANDSCAPES FROM AERIAL PHOTOGRAPHS. REPORT NUMBER FSTC-HT-23-492-69. YU. S. TOLCHEL'NIKOV, USSR. 1969. MICROFICHE COPY. STAR N70-11798.
NR-D9-30-000-00762	*ORL EXPERIMENT PROGRAM. VOL. 3, PART 4 - GEOGRAPHY, IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEBRUARY 1966. CONTRACT NUMBER NASW-1215. STAR N66-17050.

## TECHNICAL REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D9-30-000-00765	ORL EXPERIMENT PROGRAM, VOL. 3, PART 6 - COMMUNICATIONS AND NAVIGATION/TRAFFIC CONTROL. IBM CORP., FEDERAL SYSTEMS DIV. ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215, STAR N66-17052.
VP D9-30-000-00771	*ORL EXPERIMENT PROGRAM, VOL. 3, PART 12 - BIOSCIENCE, IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEBRUARY 1966. CONTRACT NUMBER NASW-1215. STAR N66-17058.
NR-D9-30-000-00786	*THE ROLE OF CLIMATE IN THE DISTRIBUTION OF VEGETATION. JOHN R. MATHER, C.W. THORNTON-WAITE ASSOCIATES, ELMER, NEW JERSEY. PUBLISHED IN ANNALS OF THE AMERICAN GEOGRAPHERS, VOL. 58, NO. 1, MARCH 1968. PP.29-41.
NR-D9-EJ-000-00843	*ON THE GENERALITY OF CORRELATION OF ATMOSPHERIC AEROSOL MASS CONCENTRATION AND LIGHT SCATTER. ROBERT J. CHARLSON, NORMAN C. AHLQUIST, ET AL., UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON. PUBLISHED IN ATMOSPHERIC ENVIRONMENT, VOL. 2, NO. 5, SEPT. 1968. PP.455-464.
NR-D9-3J-043-00858	*APPLICATION OF THE LIDAR TO AIR POLLUTION MEASUREMENTS. EARL W. BARRETT AND ODED BEN-DOV, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 6, JUNE 1967. PP.500-515.
NR-D9-30-000-00865	*ECOLOGICAL POTENTIALS IN SPECTRAL SIGNATURE ANALYSIS. R.M. HOFFER, AND C.J. JOHANSEN, PURDUE UNIVERSITY, LABORATORY FOR AGRICULTURAL REMOTE SENSING, LAFAYETTE, INDIANA. REPRINTED FROM REMOTE SENSING IN ECOLOGY, 1969. JOURNAL PAPER NO. 3479.
NR-D9-30-000-00900	*ANTHILL INFESTATIONS. M.P. MEYER, UNIVERSITY OF MINNESOTA, ST. PAUL, MINNESOTA, AND E.J. WOOLFOLK, CONCEPCION DEL URUGUAY, ARGENTINA. REPRINTED FROM PHOTOGRAMMETRIC ENGINEERING, VOL. 33, NOV. 1967. PP.1247-1249.
NR-D9-30-000-00925	*STUDY OF DATA SOURCES AND PROCESSING FOR RADAR LAND MASS SIMULATION. FINAL REPORT, JAN.-DEC. 1968. PATRICK D. FLIGOR, TECHNOLOGY INC., DAYTON, OHIO. STAR N70-10465. MICROFICHE COPY.

**GEOLOGY**

# **GEOLOGY**

## **SECTION 01 SITE MAPS**



## SITE MAPS - GEOLOGY

ACCESSION NUMBER	LOCATION	TYPE	Size
NR-E1-EJ-002-00003	SITE 002-PISGAH CRATER, CALIFORNIA	REGIONAL	17 x 22
NR-E1-EJ-002-00004	SITE 002-PISGAH CRATER, CALIFORNIA	DETAIL	17 x 22
NR-E1-EJ-002-00145	SITE 002-PISGAH CRATER, CALIFORNIA	REGIONAL	17 x 22
NR-E1-EJ-003-00005	SITE 003-MONO CRATERS, CALIFORNIA	REGIONAL	17 x 22
NR-E1-EJ-003-00025	SITE 003-MONO CRATERS, CALIFORNIA	REGIONAL	17 x 22
NR-E1-EJ-003-00036	SITE 003-MONO CRATERS, CALIFORNIA	DETAIL	17 x 22
NR-E1-EJ-003-00106	SITE 003-MONO CRATERS, CALIF. SITE 019-SONORA PASS, CALIF.	REGIONAL	17 x 22
NR-E1-EJ-003-00191	SITE 019-SONORA PASS, CALIFORNIA SITE 003-MONO CRATERS, CALIFORNIA	REGIONAL	17 x 22
NR-E1-EJ-003-00192	SITE 003-MONO CRATERS, CALIFORNIA	REGIONAL	17 x 22
NR-E1-EJ-006-00006	SITE 006-SALT LAKE (SALT LAKE DIST.,) UTAH	DETAIL	17 x 22
NR-E1-EJ-011-00031	SITE 011-YELLOWSTONE NAT'L. PARK, WYO./MONT./IDAHO	DETAIL	17 x 22
NR-E1-EJ-011-00032	SITE 011-YELLOWSTONE NAT'L. PARK, WYO./MONT./IDAHO	REGIONAL	17 x 22
NR-E1-EJ-019-00039	SITE 019-SONORA PASS, CALIFORNIA	DETAIL	17 x 22
NR-E1-EJ-019-00106	SITE 003-MONO CRATERS, CALIF. SITE 019-SONORA PASS, CALIF.	REGIONAL	17 x 22
NR-E1-EJ-019-00191	SITE 019-SONORA PASS, CALIFORNIA SITE 003-MONO CRATERS, CALIFORNIA	REGIONAL	17 x 22
NR-E1-EJ-022-00180	SITE 022-TONOPAH, NEVADA SITE 075-GOLDFIELD, NEVADA	REGIONAL	17 x 22
NR-E1-EJ-024-00035	SITE 024-SAN ANDREAS FAULT, CALIF.	REGIONAL	17 x 22
NR-E1-EJ-027-00254	SITE - IMPERIAL VALLEY, CALIFORNIA	REGIONAL	17 x 22

## SITE MAPS - GEOLOGY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-E1-EJ-029-00003	SITE 029-PHOENIX, ARIZ.	DETAIL	17 x 20
NR-E1-EJ-031-00009	SITE 031-WILCOX DRY LAKE, ARIZ.	DETAIL	17 x 20
NR-E1-DK-040-00010	SITE 040-CASCADE MTNS, (CASCADE GLACIER SITE), WASHINGTON.	DETAIL	17 x 20
NR-E1-FK-041-00164	SITE 041-MESABI RANGE, MINNESOTA	REGIONAL	17 x 22
NR-E1-EJ-051-00013	SITE 051-MESQUITE SEDIMENTARY, ARIZ.	REGIONAL	17 x 22
NR-E1-EJ-051-00014	SITE 051-MESQUITE SEDIMENTARY, ARIZ.	DETAIL	17 x 22
NR-E1-EJ-051-00114	SITE 051-MESQUITE SEDIMENTARY, ARIZ.	REGIONAL	17 x 22
NR-E1-EJ-051-00144	SITE 051-MESQUITE SEDIMENTARY, ARIZ.	REGIONAL	17 x 22
NR-E1-EJ-052-00038	SITE 052-NEVADA AEC	REGIONAL	17 x 22
NR-E1-EJ-052-00172	SITE 052-NEVADA AEC	REGIONAL	17 x 22
NR-E1-DJ-056-00099	SITE 056-MT. LASSEN, CALIFORNIA	REGIONAL	17 x 22
NR-E1-DJ-056-00181	SITE 056-MT. LASSEN, CALIFORNIA	REGIONAL	17 x 22
NR-E1-DJ-056-00185	SITE 056-MT. LASSEN, CALIFORNIA	REGIONAL	17 x 22
NR-E1-EJ-072-00015	SITE 072-COSO HOT SPRINGS, CALIF.	DETAIL	17 x 22
NR-E1-EJ-072-00169	SITE 072-COSO HOT SPRINGS, CALIFORNIA	REGIONAL	17 x 22
NR-E1-EJ-075-00180	SITE 022-TONOPAH, NEVADA SITE 075-GOLDFIELD, NEVADA	REGIONAL	17 x 22
NR-E1-GJ-079-00118	SITE 079-MATEWAN, KENTUCKY	REGIONAL	17 x 22
NR-E1-EJ-114-00034	SITE 114-WHITE SANDS, N.M.	REGIONAL	17 x 22
NR-E1-EJ-114-00043	SITE 114-WHITE SANDS, N.M.	REGIONAL	17 x 22
NR-E1-EJ-114-00058	S. 114-WHITE SANDS, N.M.	REGIONAL	17 x 22
NR-E1-EJ-114-00059	SITE 114-WHITE SANDS, N.M.	DETAIL	17 x 22
NR-E1-DK-126-00165	SITE 126-MARQUETTE/REPUBLIC TROUGHS, MICHIGAN	REGIONAL	17 x

## SITE MAPS - GEOLOGY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-E1-FJ-129-00123	SITE 129-ARKANSAS BASIN	REGIONAL	17 X 22
NR-E1-FJ-129-00124	SITE 129-ARKANSAS BASIN	REGIONAL	17 X 22
NR-E1-EJ-130-00254	SITE - IMPERIAL VALLEY, CALIFORNIA	REGIONAL	17 X 22
NR-E1-GJ-141-00119	SITE 141-CHARLESTON/COLUMBIA, S.C.	REGIONAL	17 X 22
NR-E1-GJ-141-00120	SITE 141-CHARLESTON/COLUMBIA, S.C.	REGIONAL	17 X 22
NR-E1-GJ-141-00121	SITE 141-CHARLESTON/COLUMBIA, S.C.	REGIONAL	17 X 22
NR-E1-GJ-141-00122	SITE 141-CHARLESTON/COLUMBIA, S.C.	REGIONAL	17 X 22
NR-E1-GJ-150-00078	SITE 150-PAMLICO SOUND, N.C.	REGIONAL	17 X 22
NR-E1-GJ-150-00141	SITE 150-PAMLICO SOUND, N.C.	REGIONAL	17 X 22
NR-E1-GJ-153-00086	SITE 153-ANNAPOLIS, MARYLAND	DETAIL	17 X 22
NR-E1-EJ-154-00146	SITE 154-AMBOY CRATER, CALIFORNIA	REGIONAL	17 X 22
NR-E1-EJ-157-00254	SITE - IMPERIAL VALLEY, CALIFORNIA	REGIONAL	17 X 22
NR-E1-GH-164-00247	SITE 164-BOCA RATON/BELLE GLADE, FLA.	REGIONAL	17 X 22
NR-E1-GH-165-00250	SITE 165-DESERET/ST. MARKS, FLORIDA	REGIONAL	17 X 22
NR-E1-FJ-178-00226	SITE 178-MILL CREEK, OKLAHOMA	REGIONAL	17 X 22
NR-E1-EJ-180-00234	SITE 180-GARNET MOUNTAIN, ARIZONA	REGIONAL	17 X 22
NR-E1-EJ-183-00235	SITE 183-LORDSBURG, NEW MEXICO	REGIONAL	17 X 22
NR-E1-FH-701-00259	SITE 701-EL ORO/TLALPUJAHUA, MEXICO	REGIONAL	17 X 22
NR-E1-FH-702-00260	SITE 702-IXTLAN DE LOS HERVORES/ LOS NEGRITOS, MEXICO	REGIONAL	17 X 22

## **GEOLOGY**

### **SECTION 02 SITE DESCRIPTIONS**

## SITE DESCRIPTIONS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
VR-E2-EJ-001-00001	SITE 001-CEDAR CITY (IRON SPRINGS), UTAH
VR-E2-EJ-002-00002	SITE 002-PISGAH CRATER, CALIFORNIA
VR-E2-EJ-004-00003	SITE 004-CARRIZO PLAINS, CALIFORNIA
VR-E2-EJ-005-00004	SITE 005-EUREKA (TINTIC DISTRICT), UTAH
VR-E2-EJ-006-00005	SITE 006-SALT LAKE (SALT LAKE DIST.), UTAH
VR-E2-EJ-009-00007	SITE 009-SAN FRANCISCO DIST., UTAH
VR-E2-EJ-010-00008	SITE 010-CARSON CITY (COMSTOCK DISTRICT), NEVADA
VR-E2-EJ-011-00009	SITE 011-YELLOWSTONE NAT'L. PARK, WYO/MONT./IDAHO
VR-E2-EJ-015-00010	SITE 015-TWIN BUTTES (PIMA DIST.) ARIZ.
VR-E2-GJ-017-00011	SITE 017-BALTIMORE (HARFORD-YORK), MD./PA.
VR-E2-EJ-019-00013	SITE 019-SONORA PASS, CALIFORNIA
VR-E2-EJ-019-00014	SITE 019-SONORA PASS, CALIFORNIA (II)
VR-E2-EJ-021-00014	SITE 021-BATTLE MTN. (RYE PATCH RES./RUBY MTNS.), NEVADA
VR-E2-EJ-022-00015	SITE 022-TONOPAH, NEV.
VR-E2-GJ-023-00016	SITE 023-INYO NATIONAL FOREST (WARD MTN./CRATER MTN), CALIF.
VR-E2-GJ-024-00017	SITE 024-SAN ANDREAS FAULT, CALIFORNIA
VR-E2-EJ-026-00018	SITE 026-SCRIPPS BEACH, CALIF.
VR-E2-EJ-027-00019	SITE 027-SALTON SEA, CALIF.
VR-E2-EJ-028-00020	SITE 028-WINSLOW (METEOR CRATER), ARIZONA
VR-E2-EJ-034-00021	SITE 034-OUACHITA MTNS., ARK./OKLA.
VR-E2-EJ-036-00022	SITE 036-SPANISH PEAKS, COLO.
VR-E2-EJ-038-00023	SITE 038-GREAT SAGE PLAIN (LISBON VALLEY), UTAH/COLORADO

## SITE DESCRIPTIONS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
VR-E2-JJ-050-00026	SITE 050-DONNER PASS, CALIF.
VR-E2-EJ-051-00027	SITE 051-MESQUITE SEDIMENTARY, ARIZONA
VR-E2-EJ-052-00028	SITE 052-NEVADA AEC
VR-E2-EJ-054-00029	SITE 054-SMOKE CREEK DESERT/HEBER, UTAH
VR-E2-JJ-064-00030	SITE 064-CENTRAL CASCADE RANGE, OREGON
VR-E2-JJ-070-00031	SITE 070-HOPKINTON-MILFORD/TEMPLETON/ORANGE, MASS
VR-E2-EJ-071-00032	SITE 071-HOPI BUTTES, ARIZ.
VR-E2-EJ-073-00033	SITE 073-LYNN DISTRICT, NEV.
VR-E2-EJ-075-00034	SITE 075-GOLDFIELD, NEV.
VR-E2-GJ-079-00035	SITE 079-MATEWAN, KY.
VR-E2-EJ-082-00036	SITE 082-ALVORD VALLEY, ORE.
VR-E2-FJ-083-00037	SITE 083-IRONTON, MISSOURI
VR-E2-EK-089-00041	SITE 089-BLACKBIRD DIST., IDAHO
VR-E2-EK-090-00042	SITE 090-ALBERTON, MONT.
VR-E2-HH-092-00043	SITE 092-PUERTO RICO
VR-E2-GJ-094-00044	SITE 094-NE PENNSYLVANIA (PEAT BOGS)
VR-E2-EJ-101-00048	SITE 101-SAN FRANCISCO VOLCANIC FIELDS, ARIZ.
VR-E2-EJ-114-00049	SITE 114-WHITE SANDS, NEW MEXICO
VR-E2-EJ-115-00050	SITE 115-NEW MEXICO MINERAL AND STRUCTURAL BELTS
VR-E2-GJ-127-00051	SITE 127-JOHNSON COUNTY GRAVEL TEST, INDIANA
VR-E2-FJ-129-00052	SITE 129-ARKANSAS BASIN
VR-E2-EJ-139-00056	SITE 139-STEAMBOAT SPRINGS, COLO.
VR-E2-GJ-141-00060	SITE 141-CHARLESTON/COLUMBIA, S.C.

SITE DESCRIPTIONS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
VR-E2-3J-150-00064	SITE 150-PAMLICO SOUND, NORTH CAROLINA

## **GEOLOGY**

### **SECTION - 04 MISSION SCREENING AND SUMMARY REPORTS**



## MISSION SCREENING AND SUMMARY REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
VR-E4-EJ-031-B0015	MISSION NO. 15 SITE 031
VR-E4-EJ-998-B0018	MISSION NO. 18 SITES 015, 027, 028, 031, 051
VR-E4-EJ-029-B0019	MISSION NO. 19 SITE 029
VR-E4-EJ-998-B0030	MISSION NO. 30 SITES 003, 020, 052, 019, 135
VR-E4-EJ-998-B0032	MISSION NO. 32 SITES 011, 076
VR-E4-EJ-114-B0033	MISSION NO. 33 SITE 114
VR-E4-EJ-998-B0043	MISSION NO. 43 SITES 014, 029, 101, 114
VR-E4-EJ-998-B0044	MISSION NO. 44 SITES 051, 052, 154, 002
VR-E4-EJ-998-B0055	MISSION NO. 55 SITES 007, 048, 056, 156
VR-E4-EJ-998-B0061	MISSION NO. 61 SITES 129, 076, 085, 079, 141, 992
VR-E4-EJ-998-B0072	MISSION NO. 72 SITES 041, 044, 126, 167
VR-E4-EJ-998-B0076	MISSION NO. 76 SITES 022, 056, 075
VR-E4-EJ-998-B0078	MISSION NO. 78 SITES 019, 003, 056, 040, 156
VR-E4-EJ-998-B0086	MISSION NO. 86 SITES 180, 183
VR-E4-EJ-998-A0108	MISSION 108, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITES 002, 022, AND 075

## **GEOLOGY**

### **SECTION 05 TECHNICAL LETTER REPORTS**

## TECHNICAL LETTER REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E5-EJ-075-00001	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-1, INFORMATION REGARDING VINDICATOR MOUNTAIN, NEVADA, AS A POSSIBLE TEST SITE FOR NASA REMOTE SENSING PROGRAM. WILLIAM A. FISCHER, U.S.G.S., WASHINGTON, D.C. AUGUST 5, 1964. CONTRACT NO. NONE.
NR-E5-EJ-002-00002	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-2 GEOLOGICAL RECONNAISSANCE REPORT TEST SITE NO. 2 - PISGAH CRATER, CALIFORNIA. STEPHEN J. GAWARECKI, U.S.G.S., BRANCH OF THEORETICAL GEOPHYSICS, WASHINGTON, D.C. AUGUST 10, 1964. CONTRACT NO. NONE. STAR N69-29390.
NR-E5-JO-000-00003	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-3, INTERIM REPORT OF ULTRAVIOLET ABSORPTION AND STIMULATED LUMINESCENCE INVESTIGATIONS BEING UNDERTAKEN IN COOPERATION WITH THE NASA, PART 1, ULTRAVIOLET VIDEO IMAGING SYSTEM, BY WILLIAM R. HEMPHILL AND STEPHEN J. GAWARECKI, PART 2, SPECTRAL DISTRIBUTION OF ULTRAVIOLET STIMULATED LUMINESCENCE BY WILLIAM A. FISCHER AND DAVID L. DANIELS, PART 3, MEASUREMENT OF ULTRAVIOLET REFLECTANCE, BY WILLIAM A. FISCHER AND REINHOLD FERHARZ, U.S.G.S., WASHINGTON, D.C. NOVEMBER 1964. CONTRACT NO. NONE.
NR-E5-EJ-002-00004	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-4 PRELIMINARY GEOLOGIC MAP - PISGAH CRATER AND VICINITY, CALIFORNIA, T.W. DIBBLEE, JR., U.S.G.S., WASHINGTON, D.C. MARCH 12, 1965. CONTRACT NO. NONE.
NR-E5-EJ-002-00005	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-5 PRELIMINARY RESULTS OF AERIAL INFRARED SURVEY AT PISGAH CRATER. W. A. FISCHER, J.D. FRIEDMAN, T.M. SOUSA, U.S.G.S., WASHINGTON, D.C. APRIL 22, 1965. CONTRACT NO. R-146. STAR X65-25872.
NR-E5-JO-000-00006	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-6, ULTRAVIOLET ABSORPTION AND LUMINESCENCE INVESTIGATIONS PROGRESS REPORT, WILLIAM R. HEMPHILL, U.S.G.S., WASHINGTON, D.C., AND SAMUEL U. CARNAHAN, WESTINGHOUSE ELECTRIC CORPORATION, BALTIMORE, MARYLAND, AUGUST 16, 1965. CONTRACT NO. R-146.
NR-E5-EJ-002-00007	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-7, TOPOGRAPHIC STUDIES OF PISGAH CRATER, CALIFORNIA. R.E. ALTENHOFEN, U.S.G.S., MENLO PARK, CALIFORNIA, J.K. OMAN AND T.M. SOUSA, U.S.G.S., WASHINGTON, D.C. JUNE 25, 1965. CONTRACT NO. R-146.

## TECHNICAL LETTER REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E5-00-000-00008	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-8, REFLECTANCE MEASUREMENTS IN THE 0.6 TO 2.5 MICRON PART OF THE SPECTRUM. REINHOLD GERHARZ AND WILLIAM A. FISCHER, U.S.G.S., WASHINGTON, D.C. FEBRUARY 1, 1966. CONTRACT NO. R-146.
NR-E5-EJ-003-00009	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-9, PRELIMINARY GEOLOGIC MAP OF THE MONO CRATERS QUADRANGLE CALIFORNIA. RONALD W. KISTLER, U.S.G.S., MENLO PARK, CALIFORNIA. SEPTEMBER 1, 1965. CONTRACT NO. R-146.
NR-E5-EJ-002-00011	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-11, GEOLOGIC MAP OF THE PISGAH AND SUNSHINE CONE LAVA FIELDS. WILLIAM S. WISE, UNIVERSITY OF CALIFORNIA, SANTA BARBARA, CALIFORNIA. MARCH 10, 1966. CONTRACT NO. R-146. STAR N66-29544.
NR-E5-EJ-003-00012	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-12, GEOLOGIC MAP OF MONO CRATERS AREA, CALIFORNIA. JULES D. FRIEDMAN, U.S.G.S., WASHINGTON, D.C. JULY 1966, CONTRACT NO. R-146-09-020 AND ORDER NO. T-65754G.
NR-E5-EJ-998-00013	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-13. INFRARED SPECTRAL EMITTANCE OF ROCKS FROM THE PISGAH AND MONO CRATERS AREAS, CALIFORNIA. DAVID L. DANIELS, U.S.G.S., WASHINGTON, D.C. NOVEMBER 1966. CONTRACT NO. R-146-09-020-006. U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-13A. SUPPLEMENT, INFRARED SPECTRAL EMITTANCE OF ROCKS FROM THE PISGAH AND MONO CRATERS AREA, CALIFORNIA. DAVID L. DANIELS, U.S.G.S., WASHINGTON, D.C. NOVEMBER 1966. CONTRACT NUMBER R-146-09-020-006. STAR N67-13102.
NR-E5-JJ-007-00016	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-16, GEOLOGICAL EVALUATION OF RADAR IMAGERY OREGON COAST. PARKE D. SNAVELY, JR. AND HOLLY C. WAGNER, U.S.G.S., MENLO PARK, CALIFORNIA. MAY 1966. CONTRACT NO. R-09-020-015.
NR-E5-EJ-130-00017	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-17, EVALUATION OF EKTACHROME AND MULTIBAND PHOTOGRAPHY IN CALIENTE RANGE, CALIFORNIA. J. G. VEDDER AND E. W. WOLFE, U.S.G.S., MENLO PARK, CALIFORNIA. AUGUST 1966, CONTRACT NO. R-09-020-015, STAR X66-21284.
NR-E5-EJ-998-00018	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-18. EVALUATION OF NINE-FRAME ENHANCED MULTIBAND PHOTOGRAPHY SAN ANDREAS FAULT ZONE, CARRIZO PLAIN, CALIFORNIA. ROBERT E. WALLACE, U.S. GEOLOGICAL SURVEY, MENLO PARK, CALIFORNIA. 1969. CONTRACT NUMBER R-090-020-011.

## TECHNICAL LETTER REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E5-DJ-064-00019	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-19, GEOLOGIC EVALUATION OF RADAR IMAGERY OF THE CENTRAL PART OF THE OREGON HIGH CASCADE RANGE. U. A. SWANSON, U.S.G.S., MENLO PARK, CALIFORNIA, MAY 1966. CONTRACT NO. R-09-020-015.
NR-E5-EJ-002-00020	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-20 COMPOSITION OF BASALT FLOWS AT PISGAH CRATER, CALIFORNIA: PRELIMINARY DATA, JULES D. FRIEDMAN, U.S.G.S., WASHINGTON, D.C. JULY 1966. CONTRACT NO. R-146.
NR-E5-DJ-998-00023	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-23, GEOLOGIC APPRAISAL OF RADAR IMAGERY OF SOUTHWESTERN OREGON. WILLIAM P. IRWIN, U.S.G.S., MENLO PARK, CALIFORNIA, JUNE 1966, CONTRACT NO. R-09-020-015.
NR-E5-EJ-000-00024	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-24, PHOTOLOGIC INTERPRETATION OF GEMINI IV COLOR PHOTOGRAPHY: BAJA, CALIFORNIA. ROWLAND TABOR, U.S.G.S., MENLO PARK, CALIFORNIA. MAY 1966. CONTRACT NO. R-09-020-015.
NR-E5-EJ-008-00025	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-25, EVALUATION OF RADAR IMAGERY OF HIGHLY FAULTED VOLCANIC TERRANE IN SOUTHEAST OREGON. G. W. WALKER, U.S.G.S., MENLO PARK, CALIFORNIA. MAY 1966. CONTRACT NO. R-09-020-015. STAR X66-18326.
NR-E5-DJ-040-00026	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-26, APPLICATION OF RADAR IMAGERY TO A GEOLOGIC PROBLEM AT GLACIER PEAK VOLCANO, WASHINGTON. ROWLAND TABOR, U.S.G.S., MENLO PARK, CALIFORNIA. MAY 1966. CONTRACT NO. R-09-020-015.
NR-E5-EJ-140-00027	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-27. GEOLOGIC EVALUATION OF RADAR IMAGERY OF FLIGHTS 100-B AND 100-C ACROSS THE CENTRAL SIERRA NEVADA, CALIFORNIA. PAUL C. BATEMAN, U.S.G.S., MENLO PARK, CALIFORNIA. MAY 1966. CONTRACT NO. R-09-020-015.
NR-E5-EJ-015-00028	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-28, GEOLOGIC EVALUATION - RADAR IMAGERY OF TWIN BUTTES AREA, ARIZONA TEST SITE 15. JOHN R. COOPER, U.S.G.S., DENVER, COLORADO. MAY 1966. CONTRACT NO. R-09-020-015. STAR X66-19233.
NR-E5-EJ-027-00029	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-29, RADAR IMAGERY: SALTON SEA AREA, CALIFORNIA. EDWARD W. WOLFE, U.S.G.S., MENLO PARK, CALIFORNIA. MAY 1966. CONTRACT NO. R-09-020-015.

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NR-E5-EJ-011-00030	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-30, PRELIMINARY EVALUATION OF RADAR IMAGERY OF YELLOWSTONE PARK, DOMING, R.L. CHRISTIANSEN, K.L. PIERCE, H.J. PROSTKA, AND E. RUPPEL, U.S.G.S., DENVER, COLORADO. JULY 1966. CONTRA NO. R-09-020-015.
NR-E5-30-000-00032	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-32, REFLECTANCE OF ROCKS AND MINERALS TO VISIBLE AND ULTRAVIOLET RADIATION. H. V. WATTS, IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS. JULY 1966. CONTRACT NO. R-146-09-020-006. STAR X66-10710.
NR-E5-30-000-00033	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-33, GEOLOGICAL STUDIES OF THE EARTH AND PLANETARY SURFACES OF ULTRAVIOLET ABSORPTION AND STIMULATED LUMINESCENCE. WILLIAM R. HEMPHILL, U.S.G.S., WASHINGTON, D.C., AND ROGER VICKERS, ITRI, CHICAGO, ILLINOIS. APRIL 1966. CONTRACT NO. R-146-09-020-006. STAR X66-19431. U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-33A, SUPPLEMENT, GEOLOGICAL STUDIES OF THE EARTH AND PLANETARY SURFACES OF ULTRAVIOLET ABSORPTION AND STIMULATED LUMINESCENCE. WILLIAM R. HEMPHILL, U.S.G.S., WASHINGTON, D.C., AND ROGER VICKERS, ITRI, CHICAGO, ILLINOIS. AUGUST 1966. CONTRACT NUMBER R-146-09-020-006. STAR X67-10466.
NR-E5-EJ-027-00034	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-34, GEMINI V COLOR PHOTOGRAPHY OF SALTON SEA AREA, CALIFORNIA. EDWARD W. WOLFE, U.S.G.S., MENLO PARK, CALIFORNIA. MAY 1966. CONTRACT NO. R-09-020-015.
NR-E5-30-000-00036	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-36, THE EFFECT OF ULTRAVIOLET RADIATION OF THE INTENSITY OF LUMINESCENCE. DAVID L. DANIELS, U.S.G.S., WASHINGTON, D.C. JUNE 1966. CONTRACT NO. R-146-09-020-006. STAR X66-19714.
NR-E5-30-000-00037	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-37, PRELIMINARY ULTRAVIOLET REFLECTANCE OF SOME ROCKS AND MINERALS FROM 2000A TO 3000A. A.V. THORPE, C.M. ALEXANDER, AND F.E. SENFTLE, U.S.G.S., WASHINGTON, D.C. AUGUST 1966. CONTRACT NO. R-146-09-020-006. STAR X66-21931.
NR-E5-EJ-001-00039	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-38, GEOLOGICAL EVALUATION OF RADAR IMAGERY, SOUTHWESTERN AND CENTRAL UTAH. LOWELL S. HILPERT, U.S.G.S., SALT LAKE CITY, UTAH. AUGUST 1966. CONTRACT NO. R-09-020-015. STAR X66-21932.

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NR-E5-EJ-998-00039	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-39, INTERPRETATION OF ULTRAVIOLET IMAGERY OF THE METEOR CRATER, SALTON SEA AND ARIZONA SEDIMENTARY TEST SITES (MISSION 18, JANUARY 1966). WILLIAM R. HEMPHILL, U.S.G.S., WASHINGTON, D.C. AUGUST 1966. CONTRACT NO. R-146-09-020-006. STAR X67-10464. U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-39A, SUPPLEMENT, INTERPRETATION OF ULTRAVIOLET IMAGERY OF THE METEOR CRATER, SALTON SEA AND ARIZONA SEDIMENTARY TEST SITES (MISSION 18, JANUARY 1966). WILLIAM R. HEMPHILL, U.S.G.S., WASHINGTON, D.C. AUGUST 1966. CONTRACT NUMBER R-146-09-020-006. STAR X67-10464.
NR-E5-JC-000-00040	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-40, GEOLOGIC INTERPRETATION OF THE GEMINI V PHOTOGRAPH OF THE SALT RANGE POTWAN PLATEAU REGION, WEST PAKISTAN. WILLIAM R. HEMPHILL, U.S.G.S., WASHINGTON, D.C. AND WALTER DANILCHIK, U.S.G.S., DENVER, COLORADO. AUGUST 1966. CONTRACT NO. R-146-09-020-013. STAR X66-21934.
NR-E5-JC-000-00041	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-41 POSSIBLE APPLICATION OF REMOTE-SENSING TECHNIQUES AND SATELLITE COMMUNICATIONS FOR EARTHQUAKE STUDIES. ROBERT E. WALLACE, U.S.G.S., MENLO PARK, CALIFORNIA, AND DAVID B. SLEMMONS, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. JUNE 1966. CONTRACT NO. R-09-020-015. STAR X66-19711.
NR-E5-JJ-02-00042	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-42. USE OF INFRARED IMAGERY IN STUDY OF THE SAN ANDREAS FAULT SYSTEM, CALIFORNIA. R.E. WALLACE, U.S.G.S., MENLO PARK, CALIFORNIA, AND R.M. MCXHAM, U.S.G.S., WASHINGTON, D.C. JUNE 1966. CONTRACT NO. R-09-020-015. STAR X66-20672.
NR-E5-JJ-000-00043	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-43, GEOLOGICAL UTILIZATION OF GEMINI COLOR PHOTOGRAPH OF DUBA AREA, SAUDI ARABIA. ROBERT F. JOHNSON, U.S.G.S., JIDDA, SAUDI ARABIA, AND JULES A. MACKALLOR, U.S.G.S., WASHINGTON, D.C. AUGUST 1966. CONTRACT NO. R-09-020-015. STAR X66-21935.
NR-E5-EJ-001-00044	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-44, PRELIMINARY REPORT ON RADAR IMAGERY OF CEDAR CITY-IRON SPRINGS AREA, UTAH. PAUL L. WILLIAMS, U.S.G.S., DENVER, COLORADO. SEPTEMBER 1966. CONTRACT NO. R-09-020-015. STAR X66-23895.

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NR-E5-JJ-024-00045	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-45, GEOLOGIC EVALUATION OF RADAR IMAGERY: SAN ANDREAS FAULT ZONE FROM STEVENS CREEK, SANTA CLARA COUNTY TO MISSEL ROCK, SAN MATEO COUNTY, CALIFORNIA. ROBERT D. BROWN, JR., U.S.G.S., MENLO PARK, CALIFORNIA. AUGUST 1966. CONTRACT NO. R-09-020-015.
NR-E5-JJ-000-00046	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-46, AN EVALUATION OF THE GEMINI IV COLOR PHOTOS OF THE GULF OF CALIFORNIA - CENTRAL TEXAS AREA. H. DREWES, U.S.G.S., DENVER, COLORADO. OCTOBER 1966. CONTRACT NO. R-09-020-013.
NR-E5-JJ-036-00047	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-47, GEOLOGIC EVALUATION OF RADAR IMAGERY OF THE SPANISH PEAKS REGION, COLORADO. ROSS B. JOHNSON, U.S.G.S., DENVER, COLORADO. OCTOBER 1966. CONTRACT NO. R-09-020-015.
NR-E5-GJ-017-00048	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-48, GEOLOGICAL EVALUATION OF RADAR IMAGERY, APPALACHIAN PIEDMONT, HARFORD AND YORK COUNTIES, MARYLAND AND PENNSYLVANIA. DAVID L. SOUTHWICK, U.S.G.S., WASHINGTON, D.C. OCTOBER 1966. CONTRACT NO. R-09-020-015.
NR-E5-EJ-073-00049	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-49, GEOLOGICAL EVALUATION OF K-BAND IMAGERY, NORTH-CENTRAL NEVADA. RALPH J. ROBERTS, U.S.G.S., MENLO PARK, CALIFORNIA. AUGUST 1966. CONTRACT NO. R-09-020-015.
NR-E5-JJ-000-00052	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-52, GEOLOGIC INVESTIGATIONS OF REMOTE SENSING TECHNIQUES, FINAL REPORT TO NASA, FY 1966. W. D. CARTER, GEOLOGY COORDINATOR, U.S.G.S., GEOLOGIC DIVISION, WASHINGTON, D.C. JULY 21, 1966. CONTRACT NOS. R-09-020-011, R-09-020-013, R-09-020-015, AND R-09-020-019. STAR X66-20443.
NR-E5-4M-000-00056	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-56, GEOLOGICAL EVALUATION OF NIMBUS VIDIÇON IMAGERY, NORTHWEST GREENLAND. WILLIAM E. DAVIES, U.S.G.S., WASHINGTON, D.C. OCTOBER 1966. CONTRACT NO. R-09-020-011.
NR-E5-JJ-000-00057	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-57. LIQUID NITROGEN BLACKBODY FOR SPECTRAL EMITTANCE STUDIES. D.L. DANIELS AND A.E. STODDARD, U.S.G.S., WASHINGTON, D.C., AUGUST 1966. CONTRACT NUMBER R-146-09-020-006. STAR X66-22081.



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NR-E5-EJ-053-00058	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-58, GEOLOGIC EVALUATION OF RADAR IMAGERY IN SOUTHERN UTAH, R. J. HACKMAN, U.S.G.S., WASHINGTON, D.C. NOVEMBER 1966. CONTRACT NO. R-09-020-015. STAR X67-11346.
NR-E5-JO-000-00059	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-59, ANALYSIS OF EARTH ORBITER TEST SITE PROGRAM IN RELATION TO U.S. MINERAL NEEDS. W. D. CARTER, U.S.G.S., WASHINGTON, D.C. AUGUST 1966. CONTRACT NO. R-09-020-013. STAR X66-37542.
NR-E5-EJ-028-00062	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-62. RADAR IMAGES - METEOR CRATER, ARIZONA, GERALD G. SCHABER, U.S.G.S., FLAGSTAFF, ARIZONA, NOVEMBER 1966. CONTRACT NO. R-09-020-015. STAR X67-10994.
NR-E5-GJ-000-00064	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-64, GEOLOGICAL EVALUATION OF NIMBUS VIDICON PHOTOGRAPHY, CHESAPEAKE BAY - BLUE RIDGE. CHARLES R. LEWIS AND WILLIAM E. DAVIES, U.S.G.S., WASHINGTON, D.C. NOVEMBER 1966. CONTRACT NO. R-09-020-011. STAR X67-11347.
NR-E5-JO-000-00070	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-70, MEASUREMENT OF LUMINESCENCE BY THE FRAUNHOFER LINE DEPTH METHOD. H. T. BETZ, IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS. DECEMBER 1966. CONTRACT NO. R-146-09-020-006. STAR N67-13700.
NR-E5-EJ-013-00071	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-71. INFRARED IMAGERY OF LORDSBURG - SILVER CITY AREA, NEW MEXICO. WALDEN P. PRATT, U.S.G.S., DENVER, COLORADO. MAY 1968. CONTRACT NUMBER R-146-09-020-006. STAR N69-28394.
NR-E5-EK-110-00072	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-72. GEOLOGIC INTERPRETATION OF INFRARED IMAGERY OF THE PEND OREILLE AREA, IDAHO. JACK E. HARRISON, U.S.G.S., DENVER, COLORADO. MAY 1968. CONTRACT NUMBER R-09-020-015. STAR N68-23406.
NR-E5-EJ-008-00077	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-77, GEOLOGIC EVALUATION OF INFRARED IMAGERY OF HIGHLY FAULTED VOLCANIC TERRAIN IN SOUTHEAST OREGON. GEORGE W. WALKER, U.S.G.S., MENLO PARK, CALIFORNIA, JUNE 1967, CONTRACT NO. R-09-020-015.
NR-E5-EJ-015-00089	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-89. EKTACHROME AND EKTACHROME INFRARED PHOTOGRAPHY OF THE TWIN BUTTES AREA, ARIZONA. JOHN R. COOPER, U.S.G.S., DENVER, COLORADO. JANUARY 1968, CONTRACT NO. R-09-020-001. STAR X68-13263.

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VR-E5-EJ-003-00090	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-90, ADDITIONAL INFRARED SPECTRAL EMITTANCE MEASUREMENTS OF ROCKS FROM THE MONO CLIFFS REGION, CALIFORNIA, DAVID L. DANIELS, U.S.G.S., WASHINGTON, D.C. OCTOBER 1967, CONTRACT NO. T-65754, STAR N65-28378.
VR-E5-EJ-002-00099	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-99, INFRARED SURVEY OF THE PISGAH CRATER AREA, SAN BERNARDINO COUNTY, CALIFORNIA; A GEOLOGIC INTERPRETATION, STEPHEN J. GAWAROCKI, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. JANUARY 1969, CONTRACT NUMBER R-09-020-011, STAR N69-16109.
VR-E5-J0-000-00100	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-100, ULTRAVIOLET ABSORPTION AND LUMINESCENCE STUDIES, PROGRESS REPORT FOR THE PERIOD APRIL TO DECEMBER 1967, WILLIAM R. HEMPHILL, U.S.G.S., WASHINGTON, D.C. JANUARY 1968, CONTRACT NO. R-146-09-020-006, STAR N69-28401.
VR-E5-J0-000-00102	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-102, STRUCTURAL GEOLOGIC INTERPRETATION FROM RADAR IMAGERY, RIG, REEVES, U.S. GEOLOGICAL SURVEY, DENVER, COLORADO, DECEMBER 1968, CONTRACT NUMBER R-09-020-011, STAR N69-13927.
VR-E5-EJ-011-00104	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-104, A DISTINCTION BETWEEN BEDROCK AND UNCONSOLIDATED DEPOSITS ON 3-50 INFRARED IMAGERY OF THE YELLOWSTONE RHYOLITE PLATEAU, ROBERT L. CHRISTIANSEN, U.S.G.S., DENVER, COLORADO, MAY 1968, CONTRACT NO. R-09-020-015.
VR-E5-EJ-011-00106	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-106, EVALUATION OF RADAR AND INFRARED IMAGERY OF SEDIMENTARY ROCK TERRANE, SOUTH-CENTRAL YELLOWSTONE NATIONAL PARK, WYOMING, WILLIAM R. KEEPER, U.S. GEOLOGICAL SURVEY, DENVER, COLORADO, MAY 1968, CONTRACT NUMBER R-09-020-015, STAR N68-23210.
VR-E5-EJ-004-00113	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-113, GEOLOGIC EVALUATION OF THERMAL INFRARED IMAGERY, CALIENTE AND TEMBLOR RANGES, SOUTHERN CALIFORNIA, EDWARD W. WOLFE, U.S.G.S., FLAGSTAFF, ARIZONA, SEPTEMBER 1968, CONTRACT NO. W-12589, STAR N69-25018.
VR-E5-J0-000-00121	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-121, APPLICATION OF ULTRAVIOLET REFLECTANCE AND STIMULATED LUMINESCENCE TO THE REMOTE DETECTION OF NATURAL MATERIALS, WILLIAM R. HEMPHILL, U.S.G.S., WASHINGTON, D.C. SEPTEMBER 1968, CONTRACT NUMBER T-65757, THIS REPORT WAS PRESENTED AT THE 1968 AMERICAN SOCIETY FOR PHOTOGRAMMETRY CONVENTION, MARCH 12, SESSION B, APPLICATION OF REMOTE SENSING, STAR N69-28327.

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NR-E5-EJ-004-00133	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-133. GEOLOGIC EVALUATION OF RADAR IMAGERY, CALIENTE AND TEMBLOR RANGES, SOUTHERN CALIFORNIA. EDWARD W. WOLFE, U.S. GEOLOGICAL SURVEY, FLAGSTAFF, ARIZONA. JANUARY 1969. CONTRACT NUMBER R-09-020-011. STAR N69-16988.
NR-E5-JK-040-00137	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-137. THERMAL FEATURES AT SOME CASCADE VOLCANOES AS OBSERVED BY AERIAL INFRARED SURVEYS. ROBERT M. MOXHAM, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1969. CONTRACT NUMBER T-65754-G.
NR-E5-JJ-024-00139	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-139. POST-EARTHQUAKE INFRARED IMAGERY, PARKFIELD-CHOLAME, CALIFORNIA. EARTHQUAKES OF JUNE-AUGUST, 1966. ROBERT D. BROWN, JR., U.S. GEOLOGICAL SURVEY, MENLO PARK, CALIFORNIA. JANUARY 1969. CONTRACT NUMBER R-09-020-011. STAR N69-16908.
NR-E5-EJ-139-00141	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-141. AERIAL INFRARED RECONNAISSANCE OF THE STEAMBOAT SPRINGS AREA, NEVADA. R.M. MOXHAM, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. AND GORDON W. GREENE, U.S. GEOLOGICAL SURVEY, DENVER, COLORADO. DECEMBER 1968. CONTRACT NUMBER T-65754-G.
NR-E5-EJ-998-00144	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-144. GEOLOGIC EVALUATION OF REMOTE SENSING DATA - SITE 157 ANZA-BORREGO DESERT, CALIFORNIA. EDWARD W. WOLFE, U.S. GEOLOGICAL SURVEY, FLAGSTAFF, ARIZONA. MARCH 1969. CONTRACT NUMBER R-09-020-011.
NR-E5-EJ-998-00161	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-161. GEOLOGIC UTILITY OF SMALL-SCALE AIRPHOTOS. MALCOLM M. CLARK, U.S. GEOLOGICAL SURVEY, MENLO PARK, CALIFORNIA. 1969. CONTRACT NUMBER T-80485.
NR-E5-EJ-011-00165	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-165. GEOLOGIC EVALUATION OF ANOMALIES BETWEEN LIKE-POLARIZED AND CROSS-POLARIZED K-BAND SIDE-LOOKING RADAR IMAGERY OF YELLOWSTONE NATIONAL PARK. GERALD M. RICHMOND, U.S. GEOLOGICAL SURVEY, DENVER, COLORADO. CONTRACT NUMBER 160-75-01-43-10.
NR-E5-EJ-011-00166	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-166. DETECTION OF THICK SURFICIAL DEPOSITS ON 8-14U INFRARED IMAGERY OF THE MADISON PLATEAU YELLOWSTONE NATIONAL PARK. HENRY A. WALDROP, U.S. GEOLOGICAL SURVEY, DENVER, COLORADO. OCTOBER 1969. CONTRACT NUMBER R-09-020-015.

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VR-E5-EJ-000-01001	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 1. SUPPORTING MEASUREMENTS OF PASSIVE MICROWAVE RADIOMETER SITES. JOSEPH LINTZ, JACK QUADE, ET AL. MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA, CONTRACT NO. NGR 1-38-7751.
VR-E5-EJ-019-01003	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 3. CONFERENCE ON GROUND MEASUREMENTS FOR THE INSTRUMENT AND GEOLOGIC TERMS. JOSEPH LINTZ, JACK QUADE, ET AL. MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA, CONTRACT NO. NGR 1-38-7751.
VR-E5-EJ-019-01004	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 4. SOIL STUDY OF SONORA PASS TEST SITE. JOSEPH LINTZ, JACK QUADE, ET AL. MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. CONTRACT NO. NGR 1-38-7751.
VR-E5-EJ-019-01007	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 7. SONORA PASS STANDARDS. DR. JOSEPH LINTZ, JACK QUADE, ET AL. MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. CONTRACT NO. NGR 1-38-7751. STAR N69-74846
VR-E5-EJ-056-01008	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 8. PRELIMINARY GROUND TRUTH REPORT OF THE MT. LASSEN TEST SITE NO. 56. PETER CHAPMAN, PETER BRENNAN, JACK QUADE, PAT ROBERTSON, DAVID NICOLARSEN, AND DAVID KIRCHNER. MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA, CONTRACT NO. NAS 9-7044.
VR-E5-FH-000-01009	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 9. GROUND TRUTH PARAMETERS FOR PADRE ISLAND, TEXAS. JOSEPH LINTZ, JR., MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. AUGUST 1967. CONTRACT NUMBER NAS 9-7044. STAR N69-30685
VR-E5-EJ-998-01010	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 10. GROUND TRUTH FLIGHT DATA; MISSIONS 55 AND 56; SITE 56, MT. LASSEN, SITE 19, SONORA PASS, AND SITE 3, MONO CRATERS. JACK QUADE, PETER CHAPMAN, PETER BRENNAN AND PAT ROBERTSON, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. OCTOBER 1967. CONTRACT NUMBER NAS 9-7044.
VR-E5-00-000-01011	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 11. COMPUTER CONTROLLED X-RAY SPECTROMETERIC ANALYSIS OF GEOLOGICAL MATERIALS. PAUL A. WEYLER, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. MARCH 1968. CONTRACT NUMBER NGR 1-38-7751. STAR N69-30621

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ACCESSION NUMBER	DESCRIPTION
NR-E5-EJ-019-01012	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 12. SURFACE CHEMISTRY OF MAJOR ROCK TYPES OF SONORA PASS TEST SITE, CALIFORNIA. JACK G. QUADE, PETER E. CHAPMAN AND PETER A. BRENNAN, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. JUNE 1968. CONTRACT NUMBER NGR 1-38-7754. STAR N69-30684
NR-E5-JJ-056-01013	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 13. GROUND DATA INVESTIGATIONS, MT. LASSEN, SITE 56 - MISSION 76. JACK G. QUADE, PETER E. CHAPMAN, AND PETER A. BRENNAN, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. SEPTEMBER 1968. CONTRACT NUMBER NAS 9-7779. STAR N69-30618
NR-E5-EJ-019-01014	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 14. GROUND DATA INVESTIGATIONS, SONORA PASS, SITE 19-MISSION 78. JACK G. QUADE, PETER CHAPMAN, AND PETER BRENNAN, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. SEPTEMBER 1968. CONTRACT NUMBER NAS 9-7779.
NR-E5-JJ-056-01016	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 16. ALBEDO MEASUREMENTS AT THE MT. LASSEN TEST SITE. PETER BRENNAN, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. DECEMBER 1968. CONTRACT NUMBER NAS 9-7779.

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### **SECTION 07 SUMMARY REPORTS**

SUMMARY REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E7-00-000-00014	SELECTED BIBLIOGRAPHY OF THE TERRAIN SCIENCES, ROBERT F. HOLMES, AND JOSEPH J. FOOTEN, RAYTHEON COMPANY, AUTOMETRIC OPERATION, ALEXANDRIA, VIRGINIA, 1968
NR-E7-00-000-00033	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES, GEOLOGY-NO. 2. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR 09-012-909. STAR N69-28160.
NR-E7-EJ-998-00045	EARTH RESOURCES AIRCRAFT PROGRAM STATUS REVIEW. VOL. 1, GEOLOGY, GEOGRAPHY, AND SENSOR STUDIES. EARTH RESOURCES DIVISION, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. 1969.
NR-E7-00-000-00055*	GEOLOGIC APPLICATIONS OF EARTH ORBITAL SATELLITES. W.T. PECORA, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PRESENTED AT THE UNITED NATIONS CONFERENCE ON THE EXPLORATION AND PEACEFUL USES OF OUTER SPACE, JUNE 1968. STAR N69-40998.

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### **SECTION 08 SUBJECT RELATED DOCUMENTS**



## SUBJECT RELATED DOCUMENTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E8-EJ-019-00010	PRELIMINARY DETAILS OF SAMPLING LOCATIONS AT NASA SONORA PASS TEST SITE, CALIFORNIA; NORTHWESTERN UNIVERSITY REPORT NO. 5, WALTER A. BECKMAN, JR. AND E.H. TIMOTHY WHITTEN, DEPARTMENT OF GEOLOGY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS, NASA RESEARCH GRANT NGR-14-007-027, JULY 22, 1966. STAR X66-21280.
NR-E8-FH-000-00016*	SELECTED GEOLOGIC LITERATURE - LOWER MISSISSIPPI VALLEY DIVISION AREA INDEX AND ANNOTATED BIBLIOGRAPHY, TECHNICAL REPORT NO. 3-712, AND SUPPLEMENT 3, ROGER T. SAUCIER, GEOLOGY BRANCH, U.S. ARMY ENGINEER WATERWAYS EXPERIMENT STATION, VICKSBURG, MISSISSIPPI, REPORT JAN. 1969. SUPPLEMENT 3 OCT. 1969.
NR-E8-JO-000-00062	A BRIEF SURVEY OF RADIATION EFFECTS APPLICABLE TO GEOLOGY PROBLEMS. PAUL W. LEVY, BROOKHAVEN NATIONAL LABORATORY, UPTON, NEW YORK. SEPTEMBER 1966.
NR-E8-JO-000-00076*	ELECTROMAGNETIC SCATTERING FROM ROUGH, FINITELY CONDUCTING SURFACES. ALEX STOGKYN, SPACE-GENERAL CORP., EL MONTE, CALIFORNIA. PUBLISHED IN RADIO SCIENCE, VOL. 2, NEW SERIES, NO. 4, 1967. PP.415-428. MICROFICHE COPY.
* NR-E8-JO-000-00080	FORTRAN IV CDC 6400 COMPUTER PROGRAM TO ANALYZE SUBSURFACE FOLD GEOMETRY. NORTHWESTERN UNIVERSITY REPORT NO. 17, E.H.T. WHITTEN, DEPARTMENT OF GEOLOGY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. CONTRACT NUMBER NGR-14-007-027, PUBLISHED AS COMPUTER CONTRIBUTION 25, STATE GEOLOGICAL SURVEY, UNIVERSITY OF KANSAS, LAWRENCE, SEPTEMBER 30, 1968. STAR N69-13568.
NR-E8-JO-000-00154	IN SEARCH OF METALS. (PUBLIC LECTURE) SIETZE DIJKSTRA, THE INTERNATIONAL INSTITUTE FOR AERIAL SURVEY AND EARTH SCIENCES, DELFT, NETHERLANDS, MAY 1968. STAR N69-14953.
NR-E8-JO-000-00156	THE TECTONICS OF NORTH AMERICA - A DISCUSSION TO ACCOMPANY THE TECTONIC MAP OF NORTH AMERICA. SCALE 1:5,000,000, PHILIP B. KING, U.S. DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, WASHINGTON, D.C. 1969.
NR-E8-JO-000-00163	AN INVESTIGATION OF COPPER AND OTHER SELECTED ELEMENTS IN SOIL UTILIZING GAMMA RADIATIONS INDUCED BY THERMAL NEUTRON ACTIVATION. JERRY R. KLINE, UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA. DECEMBER 1964.

## SUBJECT RELATED DOCUMENTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-EB-EJ-998-00176	APPLICATION OF BIOGEOCHEMISTRY TO MINERAL PROSPECTING, NASA SP-5056, NORTH AMERICAN ROCKWELL CORP., ROCKETDYNE DIVISION, CANOGA PARK, CALIFORNIA. 1968. CONTRACT NUMBER NAS8-5604.
NR-EB-JO-000-00193	A DIGEST OF LITERATURE RELATED TO DETECTING BURIED FERROUS OBJECTS AND EARTH VOIDS BY MAGNETIC METHODS, REPORT NUMBER BAT-171-35, GEORGE J. FALKENBACH, BATTELLE MEMORIAL INSTITUTE, COLUMBUS, OHIO. JANUARY 1966. CONTRACT NO. SD-171, STAR X66-14183.
NR-EB-JO-000-00205	CHARACTERISTICS OF GAMMA FIELD IN CENTRAL KARAKUMY, AS INFLUENCED BY COMPOSITION OF SANDY SEDIMENTS. M.A. ROMANOVA AND B.V. SHILIN, LABORATORY OF MATHEMATICAL GEOLOGY AND THE LABORATORY OF AERIAL METHODS, LENINGRAD, USSR. PUBLISHED IN INTERNATIONAL GEOLOGY REVIEW, VOL. 11, NO. 8, AUG. 1963, PP.911-918.
NR-EB-JO-000-00207*	DETERMINATION OF THE COMPOSITION OF ROCKS OF THE PALEOZOIC BASEMENT ACCORDING TO CHARACTERISTIC PECULIARITIES OF THE ANOMALOUS MAGNETIC FIELD. A.V. GLAZUNOVA, U.S. AIR FORCE, AERONAUTICAL CHART AND INFORMATION CENTER, CARTOGRAPHY DIV., ST. LOUIS, MISSOURI. REPRINTED FROM IZVESTIA AKADEMII NAUK, SSR, NO. 6, 1966. PP.65-74. MICROFICHE COPY, STAR N68-26059.
NR-EB-EJ-998-00209	A DESCRIPTIVE CATALOG OF SELECTED AERIAL PHOTOGRAPHS OF GEOLOGIC FEATURES IN THE UNITED STATES. GEOLOGICAL SURVEY PROFESSIONAL PAPER 590. CHARLES S. DENNY, ET AL., U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1968.
NR-EB-JO-000-00220	NEAR SURFACE HORIZONTAL STRESSES INCLUDING THE EFFECTS OF ROCK ANISOTROPY. REPORT NO. 7224. VERNE E. HOOKER, ET AL. U.S. BUREAU OF MINES, DENVER, COLORADO. FEBRUARY 1969. ALSO ON MICROFICHE.
NR-EB-JO-000-00257	A DESCRIPTIVE CATALOG OF SELECTED AERIAL PHOTOGRAPHS OF GEOLOGIC FEATURES IN AREAS OUTSIDE THE UNITED STATES. U.S. GEOLOGICAL SURVEY PROFESSIONAL PAPER 591. CHARLES S. DENNY, ET AL., U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1969.
NR-EB-JG-000-00280*	A SELECTED BIBLIOGRAPHY OF GEOLOGY AND GEOPHYSICS FOR THE GULF OF MEXICO. REPORT NO. N00-IR-68-89. H.R. ENSMINGER AND W.T. MORTON, NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. SEPTEMBER 1968. STAR X69-17740. MICROFICHE COPY.

SUBJECT RELATED DOCUMENTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E8-30-000-00282*	GLOSSARY OF TERMS USED IN FLUVIAL, DELTAIC AND COASTAL MORPHOLOGY AND PROCESSES. REPORT NO. TR-63. LOUISIANA STATE UNIVERSITY, COASTAL STUDIES INSTITUTE, BATON ROUGE, LOUISIANA. DECEMBER 1968. CONTRACT NO. NONR-1575(00). STAR N69-32687. MICROFICHE COPY.
NR-E8-4J-176-00321*	PRELIMINARY RECONNAISSANCE FOR URANIUM IN CONN., MAINE, MASSACHUSETTS, NEW JERSEY, NEW YORK AND VERMONT, 1950 TO 1959. U.S. ATOMIC ENERGY COMMISSION, DIV. OF RAW MATERIALS, WASHINGTON, D.C. AND U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. FEBRUARY 1969.
NR-E8-30-000-00412*	ROUGH SURFACE SCATTERING BASED ON THE SPECULAR POINT THEORY. DONALD E. BARRICK, BATTELLE MEMORIAL INSTITUTE, COLUMBUS, OHIO. REPRINTED FROM IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, VOL. AP-16, NO. 4, JULY 1968, PP.449-454,

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### **SECTION 09 TECHNICAL REPORTS**

## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-30-000-00011	ASPECTS OF GEOLOGICAL SAMPLING AT TEST SITES. E. W. TIMOTHY WHITTEN, WALTER A. BECKMAN, JR., AND R. D. HOBSON, NORTHWESTERN UNIVERSITY, DEPARTMENT OF GEOLOGY, REPORT NUMBER 4, JULY 11, 1966. CONTRACT NO. NGR-14-007-027, STAR X66-21277.
NR-E9-EJ-051-00013	GEOLOGY OF THE ARIZONA SEDIMENTARY TEST SITE, CANE SPRINGS, ARIZONA. JOSEPH LINTZ, JR. AND PETER A. BRENNAN, UNIVERSITY OF NEVADA, MACKAY SCHOOL OF MINES, RENO, NEVADA. TECHNICAL REPORT NO. 3, REVISED APRIL 1966. CONTRACT NO. NCR-29-001-015. STAR X66-18384.
NR-E9-30-000-00014	CENOZOIC VOLCANISM OF THE CENTRAL SIERRA NEVADA, CALIFORNIA DAVID B. SLEMMONS, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. TECHNICAL REPORT NO. 4. APRIL 1965. CONTRACT NO. NCR-29-001-015. STAR X66-36635.
NR-E9-EJ-020-00015	GEOLOGY OF THE BUCKS LAKE, CALIFORNIA. DAVID B. SLEMMONS, WILLIAM TAFURI, AND GARY BALLEW, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. TECHNICAL REPORT NO. 5. MAY 1966. CONTRACT NO. NCR-29-001-015. STAR X66-18329.
NR-E9-EJ-051-00016	GEOLOGY OF THE CANE SPRINGS TEST SITE, ARIZONA. JOSEPH LINTZ, JR. AND PETER A. BRENNAN, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. TECHNICAL REPORT NO. 3. NOVEMBER 1965. CONTRACT NO. NCR-29-001-015. STAR X66-15544.
NR-E9-EJ-019-00017	GEOLOGY OF THE SONORA PASS-EMIGRANT BASIN, CALIFORNIA. DAVID B. SLEMMONS, MALCOM HIBBARD, PETER CHAPMAN, JACK GUADE, JAMES SJOBERY, AND DAVID STERLING, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. TECHNICAL REPORT NO. 1. DECEMBER 1965. CONTRACT NO. NCR-29-001-015. STAR X66-15544.
NR-E9-EJ-019-00021	GEOLOGIC MAP OF THE SONORA PASS TEST SITE, CALIFORNIA. DRAFTED BY RONALD E. GUNDERSON, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. TECHNICAL REPORT NO. 2. DECEMBER 1965.
NR-E9-30-000-00035	STATISTICAL PROBLEMS INVOLVED IN REMOTE-SENSING OF THE GEOLOGY OF THE LITHOSPHERE-ATMOSPHERE INTERFACE. WALTER A. BECKMAN, JR. AND E.W. TIMOTHY WHITTEN, NORTHWESTERN UNIVERSITY REPORT NUMBER 7. DEPARTMENT OF GEOLOGY NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. DECEMBER 15, 1966. CONTRACT NUMBER NGR-14-007-027.

## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-EJ-002-00040	IDENTIFICATION OF REMOTE OBJECTS BY MEANS OF SCATTEROMETRY DATA AND APPLICATION TO PISGAH CRATER. CRES REPORT 61-17, G.W. DALKE, REMOTE SENSING LABORATORY, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003. STAR N67-35533.
NR-E9-J0-000-00046*	AIR-PHOTO INTERPRETATION REDUCES COSTS FOR A WIDE VARIETY OF OILFIELD PROJECTS. C.E. ANDERSON, D.B. HORNE, ET AL., UNDERWOOD MCLELLAN AND ASSOCIATES, CALGARY, ALBERTA, CANADA. PUBLISHED IN CANADIAN MINING AND METALLURGICAL BULLETIN, VOL. 61, NO.679, NOVEMBER 1968. PP.1337-1341.
NR-E9-EJ-998-00048	INVESTIGATION OF CROSS-POLARIZED RADAR ON VOLCANIC ROCKS. CRES REPORT NO. 61-25, ELLIOT GILLERMAN, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JULY 9, 1967. ISSUE DATE FEBRUARY 1967. CONTRACT NO. NSR-17-004-003. STAR N67-36566.
NR-E9-J0-000-00061*	A STATISTICAL ANALYSIS OF THE REFLECTANCE OF IGNEOUS ROCKS FROM 0.2 TO 2.65 MICRONS. HOWARD P. ROSS, JOEL E.M. ADLER, ET AL., U.S. AIR FORCE, OFFICE OF AEROSPACE RESEARCH, CAMBRIDGE RESEARCH LAB., BEDFORD, MASS. PUBLISHED IN ICARUS, VOL. 11, JULY 1969. PP.46-54.
NR-E9-EJ-019-00067	TWO PROGRAMS FOR THE FACTOR ANALYSIS OF GEOLOGIC AND REMOTE-SENSING DATA. NORTHWESTERN UNIVERSITY REPORT NUMBER 12. ROBERT G. GARRETT, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. OCTOBER 1967. CONTRACT NO. NSR-14-007-027. STAR N67-39920.
NR-E9-GK-126-00068	THE GEOLOGY OF LOWER PRECAMBRIAN ROCKS OF THE CHAMPION-REPUBLIC AREA OF UPPER MICHIGAN. NORTHWESTERN UNIVERSITY REPORT NUMBER 13. W. E. GORDON TAYLOR, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. OCTOBER 1967. CONTRACT NO. NSR-14-007-027. STAR N67-39848.
NR-E9-EJ-998-00070	STATISTICAL ANALYSIS OF IR SPECTRA - STANFORD PROGRAMS APPLIED TO USGS SPECTRA IN TECHNICAL LETTER NO. 13. REMOTE SENSING LABORATORY TR 67-3. GEOPHYSICS DEPARTMENT, REMOTE SENSING LABORATORY, STANFORD UNIVERSITY, STANFORD, CALIF. NOVEMBER 10, 1967. CONTRACT NO. NSR-05-020-115. U.S.G.S. TECHNICAL LETTER NASA-13 - NR-05-DL-998-0013. STAR N69-30041

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ACCESSION NUMBER	DESCRIPTION
NR-E9-EJ-019-00073	THE GEOCHEMISTRY OF THE FREMONT LAKE QUARTZ MONZONITES AND ASSOCIATED GRUSS, NASA SONORA PASS GEOLOGICAL TEST SITE, SIERRA NEVADA, CALIFORNIA; NORTHWESTERN UNIVERSITY REPORT NO. 14. ROBERT G. GARRETT, DEPARTMENT OF GEOLOGY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS, NOVEMBER 17, 1967. CONTRACT NO. NGR-14-007-027. STAR N68-10180.
NR-E9-JO-000-00076	EVALUATION OF INFRARED SPECTROPHOTOMETRY FOR COMPOSITIONAL ANALYSIS OF LUNAR AND PLANETARY SOILS. R.J.P. LYON, STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIFORNIA, APRIL 1963, PREPARED FOR NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C. TECHNICAL NOTE D-1871, CONTRACT NO. NASR-49(04). STAR N63-14406.
NR-E9-JO-000-00077	EVALUATION OF INFRARED SPECTROPHOTOMETRY FOR COMPOSITIONAL ANALYSIS OF LUNAR AND PLANETARY SOILS, PART 2, ROUGH AND POWERED SURFACES. R.J.P. LYON, STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIFORNIA, NOVEMBER 1964, PREPARED FOR NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C., CR-100, CONTRACT NO. NASR-49(04). STAR N65-10774.
NR-E9-EJ-002-00079	ANALYSIS OF SCATTEROMETRY DATA FROM PISGAH CRATER, CRES TECHNICAL REPORT 118-2. JERRY R. LUNDIEN, REMOTE SENSING LABORATORY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, AUGUST 1967. CONTRACT NOS. NSR 17-004-003 AND NAS 9-7175. STAR N69-32555
NR-E9-EJ-002-00080	SCATTEROMETER DATA ANALYSIS TECHNIQUES. CRES TECHNICAL REPORT 118-3. H.W. MASENTHIN, REMOTE SENSING LABORATORY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, JULY 1967. CONTRACT NOS. NSR 17-004-003 AND NAS 9-7175. STAR N69-15722.
NR-E9-EJ-185-00094*	BONANZA - A SYSTEMS APPROACH TO EARTH RESOURCES. W.W. GODWIN, ET AL., MARTIN MARIETTA CORP., DENVER, COLORADO. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO, OCTOBER 1969. PAPER AAS 69-574. MICROFICHE COPY.
NR-E9-JO-000-00100*	QUARTZ MAGNETIC SENSOR. V.N. BOBROV, ET AL., AKADEMIJA NAUK, SSSR. PUBLISHED IN GEOMAGNETISM AND AERONOMY, VOL. 9, NO. 2, 1969. PP.307-308. MICROFICHE COPY.
NR-E9-EJ-002-00125	REMOTE SENSOR STUDIES OF THE PISGAH CRATER AREA, CALIFORNIA; A PRELIMINARY REPORT. TECHNICAL MEMORANDUM 61-18. L.F. DELLWIG, M.E. BICKFORD, N. KIRK, AND R. WALTERS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, DECEMBER 1965. CONTRACT NUMBER NSR 17-004-003.

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ACCESSION NUMBER	DESCRIPTION
NR-E9-3H-000-00175*	ROLE OF SATELLITE PHOTOGRAPHS IN PHOTOGEOLOGY, J.G.W. GREENWOOD, INSTITUTE OF GEOLOGICAL SCIENCES, PHOTOGEOLOGY UNIT, LONDON, ENGLAND, PUBLISHED IN NATURE, VOL. 224, NOV. 1969. PP.506-508.
NR-E9-2J-000-00176*	TECTONIC AERIAL INTERPRETATION IN THE MEDITERRANEAN REGION EXEMPLIFIED BY THE METAMORPHIC SERIES OF EASTERN GREECE, NEAR MARATHON. J. BODECHTEL AND G. PAPADEAS, DEPT. OF GEOLOGY AND MINEROLOGY, UNIVERSITY OF MUNICH, GERMANY. PUBLISHED IN PHOTOGRAMMETRIA, VOL. 23, NO. 6, NOV. 1968. PP.201-210.
NR-E9-EJ-031-00180	RADAR GEOLOGY TEST AREA, WILLCOX PLAYA, ARIZONA. JAMES R. SHEPARD, U.S. ARMY CORPS OF ENGINEERS, GIMRADA, FT. BELVOIR, VIRGINIA. JANUARY 1966. CONTRACT NUMBER R-47-009-002.
NR-E9-JO-000-00181	VARIANCE OF SOME SELECTED ATTRIBUTES IN GRANITIC ROCKS, NORTHWESTERN UNIVERSITY REPORT NUMBER 16. E.W. TIMOTHY WHITTEN, DEPARTMENT OF GEOLOGY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. OCTOBER 1968. CONTRACT NUMBER NGR-14-007-027. STAR N69-30686
NR-E9-JO-000-00183	A STATISTICAL ANALYSIS OF THE REFLECTANCE OF IGNEOUS ROCKS FROM 0.2 - 2.65 MICRONS. HOWARD P. ROSS, JOEL E.M. ADLER, AND GRAHAM R. HUNT, SPACE PHYSICS LABORATORY, AIR FORCE CAMBRIDGE RESEARCH LABORATORIES, OFFICE OF AEROSPACE RESEARCH, BEDFORD, MASSACHUSETTS. CONTRACT NUMBER NONE.
NR-E9-3J-056-00184	AIRBORNE MULTIFREQUENCY MICROWAVE RADIOMETRIC SENSING OF AN EXPOSED VOLCANIC PROVINCE, TECHNICAL MEMORANDUM 33-405, JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA. OCTOBER 15, 1968. JOHN C. BLINN, III, JET PROPULSION LABORATORY, AND PETER CHAPMAN AND JACK QUADE, UNIVERSITY OF NEVADA. CONTRACT NUMBER NAS 7-100.
NR-E9-EJ-000-00186*	IDAHO RIFT SYSTEM, SNAKE RIVER PLAIN, IDAHO. MARTIN PRINZ, DEPT. OF GEOLOGY AND INSTITUTE OF METEORITICS, UNIVERSITY OF NEW MEXICO, ALBUQUERQUE, NEW MEXICO. PUBLISHED IN GEOLOGICAL SOCIETY OF AMERICA BULLETIN, VOL. 81, NO. 3, MARCH 1970. PP.941-947.
NR-E9-EJ-114-00197*	TERRAIN BIAS ON DOPPLER SYSTEM OUTPUT. REPORT NO. TR-68-6. NASA-CR-101804. H.S. FAYRE, WAVE PROPAGATION LAB., DEPT. OF ELECTRICAL ENGINEERING, UNIVERSITY OF HOUSTON, HOUSTON, TEXAS. 1969. CONTRACT NO. NAS9-6760. STAR N69-36215.



## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
VR-E9-J0-000-00212	*MASS SPECTROSCOPIC ANALYSIS OF MINERALS AND ROCKS. H. HINTENBERGER, MASS SPECTROSCOPIC DIV. OF THE MAX-PLANCK-INSTITUTE FOR CHEMISTRY, MAINZ, GERMANY. TRANSLATED FROM NATURWISSENSCHAFTEN, VOL. 56, NO. 5, MAY 1969. PP.262-267.
VR-E9-J0-000-00218	*TECHNIQUE OF MAPPING GEOLOGIC FRACTURE TRACES AND LINEAMENTS ON AERIAL PHOTOGRAPHS, COLLEGE OF MINERAL INDUSTRIES CONTRIBUTION NO. 57-9, LAURENCE H. LATTMAN, PENNSYLVANIA STATE UNIVERSITY, PA. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 24, NO. 4, 1958. PP.568-576.
VR-E9-EJ-019-00222	RE-EVALUATION OF THE NORMATIVE MINERALS OF SONORA PASS ROCK STANDARDS - UNIVERSITY OF NEVADA REPORTS NO. 7 AND NO. 12, STANFORD RSL TECH REPORT 68-2, I.A. KILINC AND R.J.P. LYON, STANFORD UNIVERSITY, REMOTE SENSING LABORATORY, STANFORD, CALIFORNIA, NOVEMBER 16, 1968, CONTRACT NO. NAS 9-7313. STAR N69-31055
VR-E9-EJ-002-00245	A GEOSCIENCE EVALUATION OF MULTIFREQUENCY RADAR IMAGERY OF THE PISGAH CRATER AREA, CALIFORNIA. CRES REPORT 118-6, LOUIS F. DELLWIG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. SEPTEMBER 1968. CONTRACT NUMBER NAS 9-7175. STAR N69-32638
VR-E9-EJ-000-00246	LINEAMENTS IN THE GRAND CANYON AREA, NORTHERN ARIZONA - A RADAR ANALYSIS. CRES REPORT 118-9, LEE H. JEFFERIS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. FEBRUARY 1969. CONTRACT NUMBER NAS 9-7175. STAR N69-32799
VR-E9-EJ-083-00247	MAJOR LINEAMENTS AND POSSIBLE CALDERAS DEFINED BY SIDE-LOOKING AIRBORNE RADAR IMAGERY, ST. FRANCOIS MOUNTAINS, MISSOURI. CRES REPORT 118-12, ELLIOT GILLERMAN, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. OCTOBER 1968. CONTRACT NUMBER NAS 9-7175. STAR N69-32469
VR-E9-EJ-003-00250	QUANTITATIVE GEOLOGIC ANALYSIS OF MULTIBAND PHOTOGRAPHY FROM THE MONO CRATERS AREA, CALIFORNIA. RSL TECHNICAL REPORT 69-2, GARY I. BALLEW, SCHOOL OF EARTH SCIENCES, STANFORD UNIVERSITY, STANFORD, CALIFORNIA. FEBRUARY 1969. CONTRACT NUMBERS NGR-05-020-115 AND NAS 9-7313.
VR-E9-MH-000-00255	REGIONAL GEOLOGY OF THE NIGER RIVER HEADWATERS AREA DERIVED FROM SPACE PHOTOGRAPHY, REPORT NO. 1610-68-41, J.R. MUHM, MARTIN MARIETTA CORPORATION, ASTROGEOPHYSICS SECTION, DENVER DIVISION, DENVER, COLORADO, OCTOBER 1968.

## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-30-000-00293	THE GEOLOGICAL VALUE OF SIMULTANEOUSLY PRODUCED LIKE- AND CROSS-POLARIZED RADAR IMAGERY. CRES REPORT 61-13. L.F. DELLWIG AND R.K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE, DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003. APPEARS IN JOURNAL OF GEOPHYSICAL RESEARCH, V.71, NO.14, JULY 15, 1966.
NR-E9-30-000-00294	THE POTENTIAL OF LOW-RESOLUTION RADAR IMAGERY IN REGIONAL GEOLOGIC STUDIES. CRES TECHNICAL REPORT 61-14. L.F. DELLWIG, J.N. KIRK AND R.L. WALTERS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, V.71, NO.20, OCTOBER 15, 1966. PP.4995-4998
NR-E9-EJ-051-00295	GEOLOGIC EVALUATION BY RADAR OF NASA SEDIMENTARY TEST SITE. CRES REPORT 61-24. H.C. MACDONALD AND L.F. DELLWIG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, AND P.A. BRENNAN, UNIVERSITY OF NEVADA, RENO, NEVADA. CONTRACT NUMBERS NSR-17-004-003 AND NSG-298. REPRINTED FROM IEEE TRANSACTIONS ON GEOSCIENCE ELECTRONICS, V.GE-5, NO.3, DECEMBER 1967, P 72-78.
NR-E9-FJ-998-00322	WHAT'S NEW IN RADAR FOR THE GEOLOGIST? LOUIS F. DELLWIG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSR-17-004-003, NAS 9-7175 AND NSG-298. PRESENTED TO THE HIGHWAY RESEARCH BOARD OF THE NATIONAL RESEARCH COUNCIL, JANUARY 19, 1968, WASHINGTON, D.C.
NR-E9-EJ-998-00324	THE POTENTIAL OF RADAR IN GEOLOGICAL EXPLORATION. CRES REPORT 118-11. L.F. DELLWIG, H.C. MACDONALD AND J.N. KIRK, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NAS 9-7175. PUBLISHED IN THE PROCEEDINGS OF THE FIFTH SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, APRIL 1968, P 747-763.
NR-E9-30-000-00329	RADAR IMAGERY, A NEW TOOL FOR THE GEOLOGIST. CRES TECHNICAL MEMORANDUM 61-50. J.N. KIRK AND R.L. WALTERS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003. PUBLISHED IN THE COMPASS OF SIGMA GAMMA EPSILON, V.43, NO.2, JANUARY 1966, P 85-93.

## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-30-000-00331	GEOLOGIC ENVIRONMENT OF HVDC GROUND CURRENTS AS RELATED TO BURIED PIPELINES. I.C. BECHTOLD, LA HABRA, CALIFORNIA, AND R.H. JAHNS, STANFORD UNIVERSITY, STANFORD, CALIFORNIA. PAPER NO. 42, PREPRINT, NATIONAL ASSOCIATION OF CORROSION ENGINEERS, 1968 CONFERENCE, CLEVELAND, OHIO.
NR-E9-30-998-00371	CHOLAME AREA-SAN ANDREAS FAULT ZONE-CALIFORNIA. A STUDY IN SLAR. CRES REPORT NO. 118-10. R.S. WING AND L.F. DELLWIG, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS. APRIL 1969, CONTRACT NUMBER NAS 9-7175.
NR-E9-30-000-00383	THE 1968 COLLAPSE OF FERNANDINA CALDERA, GALAPAGOS ISLANDS. TOM SIMKIN AND KEITH A. HOWARD, SMITHSONIAN INSTITUTION, WASHINGTON, D.C. 16 DECEMBER 1968.
NR-E9-30-000-00387	INSTRUMENTAL NEUTRON-ACTIVATION ANALYSIS OF 'STANDARD ROCKS'. A.O. BRUNFELT, UNIVERSITY OF OSLO, NORWAY, AND EILIV STEINNES, INSTITUTT FOR ATOMENERGI, KJELLER, NORWAY. PUBLISHED IN GEOCHIMICA ET COSMOCHIMICA ACTA, V.30, SEPT. 1966, P.921-928.
NR-E9-30-000-00392	GAMMA ACTIVATION ANALYSIS OF ROCKS AND ORES, BASED ON THE TRANSLATED PAPER SM-68/59, PRESENTED AT THE IAEA SYMPOSIUM, WARSAW, OCT. 18-22, 1965. PUBLISHED IN ISOTOPES AND RADIATION TECHNOLOGY, V.3, NO.4, SUMMER 1966, P.334-339.
NR-E9-30-000-00395	PRESENT STATE AND USE OF BASIC NUCLEAR GEOPHYSICAL METHODS FOR INVESTIGATING ROCKS AND ORES. A.K. BERZIN, ET. AL., INSTITUTE OF THE STATE GEOLOGICAL COMMITTEE, MOSCOW, USSR. PUBLISHED IN ATOMIC ENERGY REVIEW, V.4 NO.2, 1966, P.59-111.
NR-E9-30-000-00396	ON THE ERRORS IN CONCENTRATION DETERMINATIONS OF RADIOACTIVE ELEMENTS IN ROCKS OBTAINED BY GAMMA-EMISSION MEASUREMENTS USING THRESHOLD AND DIFFERENTIAL SPECTROMETERS. N.D. BALLYASNYI, ET. AL., ACADEMY OF SCIENCE, MOSCOW, USSR. TRANSLATION OF PAPER PUBLISHED IN IZVESTIA AKADEMIA NAUK SSSR, FIZ.ZEMLI, NO.4, 1966, P.89-97.
NR-E9-30-000-00397	CORRECTION FOR BACKGROUND IN DETERMINATION OF RARE-EARTH ELEMENTS BY X-RAY SPECTROSCOPY. R.A. KRAVCHENKO-BREZHNEV AND L.I. POLEZHAIEVA, ACADEMY OF SCIENCES, KIRO GEOLOGICAL INSTITUTE, USSR. TRANSLATED FROM ZAVODSKAYA LABORATORIYA, V.34, NO.4, APRIL 1965, P.436-440.
NR-E9-30-000-00399	EXPERIENCE GAINED IN DETERMINING RADIUM, THORIUM, AND POTASSIUM IN ROCKS BY MEANS OF A DATA TRANSMITTER BASED ON A NaI(Tl) CRYSTAL ABOARD AN AIRPLANE. L.I. BOLTNEVA, ET. AL. TRANSLATED FROM ATOMNAYA ENERGIYA, V.13, NO.3, SEPTEMBER 1962, P.280-282.

## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-J0-000-00400	UNDERGROUND RECORDING OF COSMIC RADIATION FOR THE PURPOSE OF SOLVING CERTAIN GEOLOGICAL PROBLEMS. YA.L. BLOKH, V.M. BONDARENKO, AND A.G. TARKHOV, ACADEMY OF SCIENCES, MOSCOW, USSR. PUBLISHED IN GEOMAGNETISM AERONOMY, V.3, 1963, P.320-323.
NR-E9-J0-000-00402	THE DETERMINATION OF ANTIMONY IN NATURAL MATERIALS BY NEUTRON ACTIVATION. DISSERTATION BY JAMES THOMAS TANNER, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY, 1966. U.S. ATOMIC ENERGY COMMISSION, CONTRACT AT-(40-1)-2670.
NR-E9-EJ-998-00404	GEOLOGIC APPLICATIONS OF ORBITAL PHOTOGRAPHY. TN D-4155. PAUL D. LOWMAN, JR., GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. DECEMBER 1967. STAR N68-11714.
NR-E9-EJ-998-00407*	TEXAS LINEAMENT TRACED ON EARTH PHOTOGRAPHS TAKEN FROM SPACE. TECHNICAL LETTER TF 7-3. YEHUDA KEDAR, NASA/MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. JUNE 1970.
NR-E9-FJ-085-00408	AN EVALUATION OF RADAR IMAGERY FOR STRUCTURAL ANALYSIS IN GENTLY DEFORMED STRATA; A STUDY IN NORTHEAST KANSAS. CRES TECHNICAL REPORT 118-16. LEE H. JEFFERIS, REMOTE SENSING LABORATORY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JULY 1969. CONTRACT NO. NAS 9-7175.
NR-E9-J0-000-00411	SPACE PHOTO POINTS WAY TO OIL. DUNCAN A. MCNAUGHTON AND WILLIAM A. HUCKABA, PETROLEUM CONSULTANTS, DALLAS, TEXAS. PUBLISHED IN THE OIL AND GAS JOURNAL, JUNE 13, 1966, P.132-136.
NR-E9-FH-175-00412	PUT GEOLOGY SURVEYS IN ORBIT TO FIND OIL. FRANK J. WOBBER, IBM CORP., FEDERAL SYSTEMS DIV., BETHESDA, MD. REPRINT FROM THE OIL AND GAS JOURNAL, DEC. 11, 1967.
NR-E9-J0-000-00414	SPACE AGE PROSPECTING. FRANK J. WOBBER, IBM CORP., FEDERAL SYSTEMS DIV., BETHESDA, MD. REPRINTED FROM WORLD MINING, JUNE 1968.
NR-E9-FH-175-00415	ORBITAL PHOTOGRAPHY, APPLIED EARTH SURVEY TOOL. FRANK J. WOBBER, IBM CORP., FEDERAL SYSTEMS DIV., BETHESDA, MD. REPRINTED FROM PHOTOGRAPHIC APPLICATIONS IN SCIENCE, TECHNOLOGY AND MEDICINE, SUMMER 1968.
NR-E9-J0-000-00423	THERMAL DYNAMICS AT THE EARTH-AIR INTERFACE: THE IMPLICATIONS FOR REMOTE SENSING OF THE GEOLOGIC ENVIRONMENT. ASL TECHNICAL REPORT 69-4. ROSSMAN W. SMITH, JR., STANFORD UNIVERSITY, SCHOOL OF EARTH SCIENCES, STANFORD, CALIFORNIA. JULY 8, 1969. CONTRACT NUMBERS USCI 14-08-0001-11872 AND NAS9-7313.

## TECHNICAL REPORTS - GEOLOGY

## ACCESSION NUMBER

## DESCRIPTION

- VR-E9-J0-000-00427 DEPENDENCE OF RADIOACTIVITY AND TRACE ELEMENT CONTENT IN SEDIMENTARY ROCKS ON THE MECHANICAL COMPOSITION OF THE ROCKS. A.L. KOVALEVSKIY, BURYAT INTER-SCIENCE RESEARCH INSTITUTE, SIBERIAN BRANCH OF THE ACADEMY OF SCIENCES USSR, ULAN-UDE. TRANSLATED FROM GEOKHIMIYA, NO. 3, PP.362-368, 1966.
- VR-E9-EJ-181-00434 GEOLOGIC ORBITAL PHOTOGRAPHY: EXPERIENCE FROM THE GEMINI PROGRAM. NASA T' X-63244. PAUL D. LOWMAN, JR., GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. JUNE 1968. ALSO IN PHOTOGRAMMETRIA, VOL. 24, 1969, PP.77-106. STAR N68-27615.
- VR-E9-J0-000-00440 A TERRAIN BRIEF. (NORTH NIGERIA) M.E.X.E. TEST REPORT 931. MILITARY ENGINEERING EXPERIMENTAL ESTABLISHMENT, CHRISTCHURCH, UNITED KINGDOM. NOVEMBER 1965 (REPRINT FEBRUARY 1967) STAR N68-81461.
- VR-E9-3J-000-00441\* GEOLOGICAL STRUCTURES OF THE RED SEA AREA INFERRED FROM SATELLITE PICTURES. MCNEM ABDEL-GAWAD, SCIENCE CENTER NORTH AMERICAN ROCKWELL CORP., THOUSAND OAKS, CALIFORNIA. PUBLISHED IN HOT BRINES AND RECENT HEAVY METAL DEPOSITS IN THE RED SEA, EGON T. DEGENS, AND DAVID A. ROSS, EDITORS, SPRINGER-VERLAG NEW YORK, INC., 1969, PP.23-37.
- VR-E9-J0-000-00442 APPLICATION OF NEUTRON ACTIVATION ANALYSIS TO GEOLOGY. D.I. LEIPUNSKAYA, R.A. REZVANOV, AND V.I. DRYNKIN, ACADEMY OF SCIENCES, MOSCOW, USSR. AEC TRANSLATION 6390, P.355-364.
- VR-E9-GG-998-00483 GEOLOGIC EVALUATION OF RADAR IMAGERY FROM DARIEN PROVINCE, PANAMA. CRES TECHNICAL REPORT 133-6. HAROLD C. MACDONALD, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JUNE 1969. CONTRACT NUMBERS DAAK02-68-C-0089 AND NAS 9-7175. STAR N69-40572.
- VR-E9-EJ-998-00487 SPACE PHOTOGRAPHY - A NEW ANALYTICAL TOOL FOR THE SEDIMENTOLOGIST. FRANK J. WOBBER, IBM, FEDERAL SYSTEMS DIVISION, BETHESDA, MARYLAND. REPRINTED FROM SEDIMENTOLOGY, VOL. 9, 1967, PP.265-317.
- VR-E9-3H-057-00489 INFRARED SURVEYS OF HAWAIIAN VOLCANOES. W.A. FISCHER AND R.M. MOXHAM, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PUBLISHED IN SCIENCE, VOL. 146, NO. 3646, NOV. 6, 1964. PP.733-742.

## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-30-000-00519	TERRAIN ANALYSIS BY ELECTROMAGNETIC MEANS. REPORT 4. LABORATORY INVESTIGATIONS OF THE INFRARED EMISSIVITY OF SOILS BELOW A WAVELENGTH OF 7.7 MICRONS. TECHNICAL REPORT NO. 3-693, N.J. LAVECCHIA, JR. AND A.N. WILLIAMSON, JR., U.S. ARMY CORPS OF ENGINEERS, WATERWAYS EXPERIMENT STATION, VICKSBURG, MISSISSIPPI. MAY 1967. STAR X67-21482.
NR-E9-30-000-00528	STRUCTURAL EFFECTS OF SEA-FLOOR SPREADING IN THE GULF OF ADEN AND RED SEA ON THE ARABIAN SHIELD. PETER J. BUREK, SOUTHWEST CENTER FOR ADVANCED STUDIES, GEOSCIENCES DIVISION, DALLAS, TEXAS. JUNE 1968. CONTRACT NUMBERS NSG-269-62 AND NAS9-87671.
NR-E9-30-000-00529	TECTONIC EFFECTS OF SEA-FLOOR SPREADING ON THE ARABIAN SHIELD. (CONTRIBUTION NO. 81), PETER J. BUREK, SOUTHWEST CENTER FOR ADVANCED STUDIES, GEOSCIENCE DIV., DALLAS, TEXAS. 1969. CONTRACT NUMBERS NSG-269-62 AND NAS9-87671.
NR-E9-30-000-00531*	PROSPECTS OF GEOLOGICAL INVESTIGATIONS IN THE ANTARCTIC IN THE ANTARCTIC IN 1960-1965. M.G. PAVICH, USSR. MARCH 1968. PUBLICATIONS OF THE ACADEMY OF SCIENCES OF THE USSR, MOSCOW, 1961. PP.25-37. MICROFICHE COPY. STAR N68-24377.
NR-E9-30-000-00535*	INFRARED RADIANCE OF SELECTED TERRAIN FEATURES AS VIEWED FROM HIGH ALTITUDE. REPORT NO. AFCRL-67-0448, DAVID G. MURCRAY, ET AL., DENVER UNIVERSITY, DEPT. OF PHYSICS, DENVER, COLORADO. JULY 1967. CONTRACT NO. AF 19(628)-4797. MICROFICHE COPY. STAR N67-40218.
NR-E9-EJ-000-00547	PHOTOINTERPRETIVE MAPPING FROM SPACE PHOTOGRAPHS OF QUATERNARY GEOMORPHIC FEATURES AND SOIL ASSOCIATIONS IN NORTHERN CHIHUAHUA AND ADJOINING NEW MEXICO AND TEXAS. ROGER B. MORRISON, U.S. GEOLOGICAL SURVEY, DENVER, COLORADO. PUBLISHED IN NEW MEXICO GEOLOGICAL SOCIETY - TWENTIETH FIELD CONFERENCE, 1969. PP.116-130.
NR-E9-30-000-00554	VII. GLACIOLOGY. G. HATTERSLEY SMITH, NATIONAL RESEARCH COUNCIL OF CANADA, OTTAWA, CANADA. PUBLISHED IN CANADIAN GEOPHYSICS BULLETIN, VOL. 5, 1962, P.95-109. STAR X68-81036.
NR-E9-EJ-029-00555	DEVELOPMENT IN AERIAL COLOR PHOTOGRAPHY FOR TERRAIN ANALYSIS. ABRAHAM ANSON, SYSTEMS BRANCH, INTELLIGENCE DIV., U.S. ARMY ENGINEER, GIMRADA, FT. BELVOIR, VIRGINIA. MARCH 1968. REPRINTED FROM PHOTOGRAMMETRIC ENGINEERING, OCT. 1968, PP.1048-1057.

## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-EJ-031-00559*	GEOLOGY, MINERALOGY, AND HYDROLOGY OF U.S. PLAYAS. REPORT NO. AFCRL-65-266. JAMES T. NEAL, U.S. AIR FORCE, OFFICE OF AEROSPACE RESEARCH, AIR FORCE CAMBRIDGE RESEARCH LAB., BEDFORD, MASS. 1965. CONTRACT NO. AF 19(628)-2486. MICROFICHE COPY. STAR N65-29540.
NR-E9-JO-000-00560*	PHOTO GEOLOGY OF THE SAHARA AND THE KALAHARI FROM TIROS. JAMES W. SKEHAN, BOSTON COLLEGE, CHESTNUT HILL, MASS. DEC. 1965. CONTRACT NO. AF19(628)-3990. MICROFICHE COPY. STAR N66-21891.
NR-E9-EJ-000-00562*	PHYSICAL CHARACTERISTICS OF ALLUVIAL FANS. ROBERT L. ANSTAY, U.S. ARMY, NATICK LABORATORIES, NATICK, MASS. DEC. 1965. MICROFICHE COPY. STAR N65-81674.
NR-E9-EJ-998-00574	GEOSCIENCE POTENTIALS OF SIDE-LOOKING RADAR IMAGERY AND OVERLAYS - VOL. 2. RATHEON CO., AUTOMETRIC OPERATION, ALEXANDRIA, VIRGINIA. AUGUST 1965. STAR X68-80036.
NR-E9-EJ-029-00576*	A COMPARATIVE STUDY OF PHOTOGRAPHY FOR SOILS AND TERRAIN DATA. OLIN W. MINTZER, U.S. ARMY ENGINEER TOPOGRAPHIC LAB., GEOGRAPHIC SCIENCES DIV., FORT BELVOIR, VIRGINIA. APRIL 1968. STAR N68-30679. MICROFICHE AND HARD COPY.
NR-E9-EJ-000-00580*	MULTISPECTRAL PHOTOGRAPHIC STUDIES OF A RED-BED FACIES, MINAS BASIN, NOVA SCOTIA. REPORT NO. AFCRL-67-0603. GEORGE D. BROWN, JR., U.S. AIR FORCE CAMBRIDGE RESEARCH LAB., OFFICE OF AEROSPACE RESEARCH, BEDFORD, MASS. NOVEMBER 1967. MICROFICHE COPY. STAR N68-26340.
NR-E9-EJ-024-00581*	GEOPHYSICAL STUDY OF BASIN-RANGE STRUCTURE, DIXIE VALLEY REGION, NEVADA. FINAL SCIENTIFIC REPORT, PARTS I-VIII, JAN. 1964-DEC. 1966. GEORGE A. THOMPSON, ET AL., STANFORD UNIV., GEOPHYSICS DEPT., REMOTE SENSING LAB., STANFORD, CALIFORNIA. CONTRACT NO. AF 19(628)-3867. MICROFICHE COPY. STAR N67-40021.
NR-E9-JO-000-00594*	APPLICATIONS OF COHERENT OPTICS TO GEOLOGICAL IMAGERY. REPORT NO. AFCRL-69-0135. R.H. MITCHEL AND F.B. ROTZ, UNIVERSITY OF MICHIGAN, INSTITUTE OF SCIENCE AND TECHNOLOGY, WILLOW RUN LAB., ANN ARBOR, MICHIGAN. AUG. 1969. CONTRACT NO. F19628-67-C-0402. STAR N70-11038.
NR-E9-JO-000-00602*	MINERIA EN LA ERA ESPACIAL. FRANK J. WOBBER, IBM FEDERAL SYSTEMS CENTER, GAITHERSBURG, MARYLAND. REPRINTED FROM HIERRO Y FUTURO (LIMA, PERU), NO. 75, SEPTEMBER 1968.

## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-3H-057-00614*	LA DETECTION A DISTANCE - PROGRES RECENTS DE LA PHOTO-GEOLOGIE. M. GUY, ECOLE NATIONALE SUPERIEURE DU PETROLE ET DES MOTEURS, RUEIL-MALMAISON, FRANCE. PUBLISHED IN ANNALES DES MINES. FEB. 1969, PP.29-72.
NR-E9-4K-000-00619*	COLOR AIRPHOTOS FOR TERRAIN ANALYSIS IN MAINE. TECHNICAL PAPER 68-5R. E.G. STOECKELER, MAINE STATE HIGHWAY COMMISSION, MATERIALS AND RESEARCH DIV., AUGUSTA, MAINE. NOV. 1968 STAR N69-35460.
NR-E9-EJ-000-00624*	COLOR AERIAL PHOTOGRAPHY IN GEOLOGIC INVESTIGATIONS. (SOME RESULTS OF RECENT STUDIES) W.A. FISCHER, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 28, NO. 1, 1962. PP.133-139.
NR-E9-JD-000-00630*	GEOLOGISCHE UND BODENKUNDLICHE BEOBSACHTUNGSMOGLICHKEITEN AUS DER LUFT IM ABLAUF DER JAHRESZEITEN. R. MUHLFELD, BUNDESANSTALT FUR BODENFORSCHUNG, HANNOVER, DEUTSCHLAND. OFF PRINT FROM ACTES DU IIE SYMPOSIUM INTERNATIONAL DE PHOTO-INTERPRETATION, PARIS, 1966. PP.IV-107-114.
NR-E9-3J-000-00634	APPLICATION OF SPACE PHOTOGRAPHS FOR GEOMORPHOLOGICAL STUDY - TAURUS MOUNTAINS, TURKEY. NASA TECHNICAL LETTER TF7-1. YEHUDA KEDAR, NASA/MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. AUGUST 1969, STAR N70-15222.
NR-E9-JD-000-00643*	SPECTRAL DIFFUSE REFLECTANCE OF DESERT SURFACES. EDWARD V. ASHBURN AND RODNEY G. WELDON, MICHELSON LABORATORY, U.S. NAVAL ORDNANCE TEST STATION, CHINA LAKE, CALIFORNIA. PUBLISHED IN JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 46, NO. 8, AUG. 1956. PP.583-586.
NR-E9-JD-000-00644*	AUTOMATIC RECOGNITION OF BASIC TERRAIN TYPES FROM AERIAL PHOTOGRAPHS. AZRIEL ROSENFELD, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 28, 1962. PP.115-132.
NR-E9-JD-000-00646*	OPTICAL CORRELATION FOR TERRAIN TYPE DISCRIMINATION. ALBERT GOLDSTEIN, BUDD ELECTRONICS CO., LONG ISLAND, N.Y. AND AZRIEL ROSENFELD, NOW AT NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. PRESENTED AT THE 7TH NATIONAL CONVENTION ON MILITARY ELECTRONICS, WASHINGTON, D.C. SEPT. 1963. PP.420-424.
NR-E9-3K-126-00671*	RELICT DIAGENETIC TEXTURES AND STRUCTURES IN REGIONAL METAMORPHIC ROCKS, NORTHERN MICHIGAN. (NASA GEOLOGICAL TEST SITE NO. 126) NORTHWESTERN UNIVERSITY REPORT NO. 20. CHRISTOPHER MCA. POWELL, DEPT. OF GEOLOGICAL SCIENCES, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. JANUARY 1970. CONTRACT NUMBER NGR-14-007-027.



## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
VR-E9-2J-034-00684*	SEDIMENTARY PETROLOGY AND HISTORY OF THE HAYMOND FORMATION (PENNSYLVANIAN), MARATHON BASIN, TEXAS. REPORT OF INVESTIGATION 57. E.F. MCBRIDE, UNIVERSITY OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, AUSTIN, TEXAS. MARCH 1966.
VR-E9-20-000-00685*	SPECTRAL REFLECTANCE PROPERTIES OF NATURAL FORMATIONS REPORT NO. NRC TT-439. E.L. KRINOV, AERO METHODS LAB, ACADEMY OF SCIENCES, USSR. 1953. NATIONAL RESEARCH COUNCIL OF CANADA, TECHNICAL TRANSLATION 439.
VR-E9-20-000-00686*	GEOLOGICAL APPLICATIONS OF OPTICAL DATA PROCESSING. HOWARD J. PINCUS, OHIO STATE UNIVERSITY, AND MILTON B. DOBRIN, UNITED GEOPHYSICAL CORP., PASADENA, CALIFORNIA. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 71, NO. 20, OCTOBER 1966. PP.4861-4869.
VR-E9-20-000-00690*	AIRBORNE GEOPHYSICAL REMOTE SENSORS FOR MINERAL AND WATER RESOURCES EXPLORATION. J. MACDOWALL, CANADA CENTRE FOR INLAND WATERS, CANADA. PRESENTED AT ANGLO-AMERICAN AERONAUTICAL CONFERENCE, 11TH, LONDON, ENGLAND, SEPT. 1969. RAES PAPER 8. MICROFICHE COPY.
VR-E9-20-000-00695*	POLYCHROMATIC TERRAIN IMAGING. NASA CR-64938, G.G. SHEPARD, OHIO STATE UNIVERSITY, RESEARCH FOUNDATION, COLUMBUS, OHIO. MAY 1965. CONTRACT NUMBER NSR-36-008-n27. MICROFICHE COPY. STAR X65-19661.
VR-E9-20-000-00696*	GEOLOGICAL INTERPRETATION OF HYPERALTITUDE PHOTOGRAPHS FROM GEMINI SPACECRAFT. H.E.C. VAN DER MEER MOHR, INTERNATIONAL INSTITUTE FOR AERIAL SURVEY AND EARTH SCIENCES, DELFT, NETHERLANDS. PRESENTED AT INTERNATIONAL CONGRESS OF PHOTOGRAMMETRY, 11TH, LAUSANNE, SWITZERLAND, JULY 1968. MICROFICHE COPY.
VR-E9-EJ-031-00720*	SATELLITE PICTURE SHOWS BISBEE-DOUGLAS. FRANK J. WOBEL, IBM FEDERAL SYSTEMS DIV., GAITHERSBURG, MARYLAND. REPRINTED FROM WORLD MINING, VOL. 21, NO. 13, DEC. 1968, P.49. ALSO COPY FROM PAY DIRT MAGAZINE, JAN. 27, 1969 WITH ADDED EXPLANATION ON AREA PHOTOGRAPHED.
VR-E9-20-000-00725*	RADAR MEASUREMENT OF THE THICKNESS OF MOUNTAIN GLACIERS. V.V. BOGORODSKII AND G.V. TREPOV, USSR. PUBLISHED IN SOVIET PHYSICS - TECHNICAL PHYSICS, VOL. 13, NO. 8, FEBRUARY 1969. PP.1135-1136.

## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-30-000-00728*	A TERRAIN EVALUATION SYSTEM FOR ENGINEERING. K. GRANT, COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, AUSTRALIA. APRIL 1968. STAR N69-22204.
NR-E9-30-000-00730*	NEW EVIDENCE OF TRANSCURRENT MOVEMENTS IN RED SEA. NORTH AMERICAN ROCKWELL MONOGRAPH 577. MONEM ABDEL-GAWAD, NORTH AMERICAN ROCKWELL CORP., SCIENCE CENTER, THOUSAND OAKS, CALIFORNIA. REPRINTED FROM AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS BULLETIN, VOL. 53, NO. 7, JULY 1969, PP.1466-1479.
NR-E9-34-000-00731*	THE GULF OF SUEZ - A BRIEF REVIEW OF STRATIGRAPHY AND STRUCTURE. MONEM ABDEL-GAWAD, NORTH AMERICAN ROCKWELL CORP. SCIENCE CENTER, THOUSAND OAKS, CALIFORNIA. JUNE 1969.
NR-E9-34-000-00733*	INTERPRETATION OF SATELLITE PHOTOGRAPHS OF THE RED SEA AND GULF OF ADEN. MONEM ABDEL-GAWAD, NORTH AMERICAN ROCKWELL CORP., SCIENCE CENTER, THOUSAND OAKS, CALIFORNIA. PRESENTED AT THE ROYAL SOCIETY (LONDON) MEETING ON THE STRUCTURE AND EVOLUTION OF THE RED SEA, AND THE NATURE OF THE RED SEA, GULF OF ADEN AND ETHIOPIAN RIFT JUNCTION, MARCH 1969.
NR-E9-3J-000-00737*	UTILIZATION OF AERIAL PHOTOGRAPHY FOR THE GEOGRAPHIC STUDY OF THE DESERTS OF CENTRAL ASIA. M.P. PETROV, ACADEMIA NAUK, SSSR, LABORATORIIA AEROMETODOV, 1961. MICROFICHE COPY. STAR N70-11721.
NR-E9-EJ-998-00745*	STATISTICAL EVALUATION OF THE COMPOSITION, PHYSICAL PROPERTIES, AND SURFACE CONFIGURATION OF TERRESTRIAL TEST SITES AND THEIR CORRELATION WITH REMOTELY SENSED DATA. SEMI-ANNUAL STATUS REPORT - MARCH 31, 1968. NORTHWESTERN UNIVERSITY REPORT NUMBER 15. DEPARTMENT OF GEOLOGY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. MAY 24, 1968. CONTRACT NUMBER NGR-14-007-027. STAR X68-16119.
NR-E9-GK-126-00746*	STATISTICAL EVALUATION OF THE COMPOSITION, PHYSICAL PROPERTIES, AND SURFACE CONFIGURATION OF TERRESTRIAL TEST SITES AND THEIR CORRELATION WITH REMOTELY SENSED DATA. SEMI-ANNUAL STATUS REPORT - SEPTEMBER 30, 1968. NORTHWESTERN UNIVERSITY REPORT NO. 18. E.H. TIMOTHY WHITTEN DEPARTMENT OF GEOLOGY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. CONTRACT NUMBER NGR-14-007-027. STAR X69-10963.
NR-E9-30-000-00761*	ORL EXPERIMENT PROGRAM. VOL. 3, PART 2 - GEOLOGY/HYDROLOGY. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17048.

## TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-30-000-00772*	ORL EXPERIMENT PROGRAM. VOL. 3, PART 13 - PHYSICAL SCIENCES. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17059.
NR-E9-30-000-00788*	BLOCK DIAGRAMS OF LANDSCAPES FOR TERRAIN CLASSIFICATION. REPORT NO. M.E.X.E. TN-6/66. C.J. LAWRENCE, MILITARY ENGINEERING EXPERIMENTAL ESTABLISHMENT, CHRISTCHURCH, ENGLAND. JANUARY 1968. STAR N69-38024.
NR-E9-3K-068-00816*	THE GEOLOGIC STORY OF MT. RAINIER. U.S. GEOLOGICAL SURVEY BULLETIN 1292. DWIGHT R. CRANDELL, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1969.
NR-E9-30-000-00845*	THERMOCHEMICAL REMANENT MAGNETIZATION (TCRM) IN BASALTIC ROCKS - EXPERIMENTAL CHARACTERISTICS. P.J. WASILENSKI, UNIVERSITY OF PITTSBURGH, PITTSBURGH, PA. PUBLISHED IN JOURNAL OF GEOMAGNETISM AND GEOELECTRICITY, VOL. 21, NO. 3, 1969. PP.595-613.
NR-E9-EJ-181-00851*	ORBITAL IMAGES FOR PLACER PROSPECTING. FRANK J. WOBBER, IBM FEDERAL SYSTEMS DIV., GAITHERSBURG, MARYLAND. REPRINTED FROM WORLD MINING, JUNE 1969, P.36.
NR-E9-30-000-00852*	GEOLOGICAL DATA ACQUISITION FROM SPACE. FRANK J. WOBBER, IBM SPACE SYSTEMS CENTER, BETHESDA, MARYLAND. PRESENTED AT IBM ENVIRONMENTAL SCIENCES TECHNICAL SEMINAR, ARMONK, N.Y. OCT. 1967, PROCEEDINGS, PP.45-47.
NR-E9-3J-000-00853*	FRACTURE TRACES IN ILLINOIS. FRANK J. WOBBER, IBM SPACE SYSTEMS CENTER, BETHESDA, MARYLAND. REPRINTED FROM PHOTOGRAMMETRIC ENGINEERING, VOL. 33, MAY 1967, PP.499-506.
NR-E9-30-000-00854*	SPACE PHOTOGRAPHY AS A SEDIMENTOLOGICAL RESEARCH TOOL. FRANK J. WOBBER, IBM CORP., ROCKVILLE, MARYLAND. PREPRINT OF PAPER PRESENTED AT AMERICAN SOCIETY OF PHOTOGRAMMETRY, SEMI-ANNUAL MEETING, SAN ANTONIO, TEXAS, OCT. 1968.
NR-E9-VH-000-00871*	PHOTO-INTERPRETATION STUDIES OF DESERT BASINS IN NORTHERN AFRICA. PART I, FINAL REPORT, MARCH 1963-JULY 1968. REPORT NO. AFRL-68-0590. H.T.U. SMITH, UNIVERSITY OF MASSACHUSETTS, AMHERST, MASS. JUNE 1969. CONTRACT NUMBER AF19(628) 2486. STAR N69-38093.
NR-E9 J-000-00875*	BESTIMMUNG DER DICHTEN VON GESTEINEN NACH DER GAMMA-ABSORPTIONSMETHODE BEI SCHMALEM STRAHLENBÜNDEL MIT DEM SZINTILLATIONSZÄHLER. TRANSLATION - DETERMINATION OF THE DENSITY OF ROCK BY THE GAMMA-ABSORPTION METHOD USING A NARROW BEAM OF RAYS WITH THE SCINTILLATION COUNTER. A.R. VOLKER, KARL-MARX UNIVERSITY, LEIPZIG, GERMANY. PUBLISHED IN GEOPHYSIK UND GEOLOGIE, FOLGE 7, 1965. PP.84-95.

TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-EJ-114-00895*	TERRAIN BIAS ON RADAR COPPLER SPECTRUM, H.S. HAYRE, UNIVERSITY OF HOUSTON, WAVE PROPAGATION LAB., HOUSTON, TEXAS NOVEMBER 1968.
NR-E9-30-000-00896*	PHOTOGEOLOGIC PROCEDURES IN GEOLOGIC INTERPRETATION AND MAPPING. GEOLOGICAL SURVEY BULLETIN 1043-A. RICHARD G. RAY, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1956.
NR-E9-30-000-00922*	UTILIZATION OF THE RESULTS OF GEOBOTANICAL INTERPRETATIONS OF AERIAL PHOTOGRAPHS IN LANDSCAPE INVESTIGATIONS OF THE NORTHERN CASPIAN SEA REGION. TRANSLATED FROM RUSSIAN, A.M. SHVYRYAEVA, USSR, JUNE 1969. STAR N70-11123. MICROFICHE COPY.
NR-E9-30-000-00923*	THE USE OF THE RESULTS OF GEOBOTANIC INTERPRETATION OF AERIAL PHOTOGRAPHS AND THE IDENTIFICATION OF LANDSCAPE FEATURES OF TERRITORIES, LENS FORMATION OF LEAKAGE WATERS ON BLACK EARTH AND IN THE SARPINSK LOWLAND, N.N. IORDANSKAYA AND A.V. SHAVYRINA, USSR, OCT. 1969. MICROFICHE COPY.
NR-E9-4E-000-00927*	THE GEOLOGY OF THE DUARINGA AND SAINT LAWRENCE 1 TO 250000 SHEET AREAS, QUEENSLAND, E.J. MALONE, ET AL., BUREAU OF MINERAL RESOURCES, CANBERRA, AUSTRALIA. 1969. STAR N69-41353. MICROFICH COPY.

# HYDROLOGY

## **HYDROLOGY**

### **SECTION 01 - SITE MAPS**

## SITE MAPS - HYDROLOGY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-F1-DK-040-00028	SITE 040-CASCADE MTS., WASHINGTON	DETAIL	17 x 22
NR-F1-DK-040-00190	SITE 040-CASCADE MOUNTAIN, WASHINGTON	REGIONAL	17 x 22
NR-F1-GH-095-00024	SITE 095-EVERGLADES, FLORIDA SITE 098-HOMESTEAD, FLORIDA SITE 099-FLORIDA STRAITS SITE 107-CAPE SABLE SUBMARINE SPRING, FLORIDA SITE 108-CUTLER AREA SUBMARINE SPRING, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-095-00053	SITE 095-EVERGLADES, FLA.	DETAIL	17 x 22
NR-F1-GH-095-00073	SITE 095-EVERGLADES, FLORIDA SITE 108-CUTLER AREA SUBMARINE SPRING, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-098-00024	SITE 095-EVERGLADES, FLORIDA SITE 098-HOMESTEAD, FLORIDA SITE 099-FLORIDA STRAITS SITE 107-CAPE SABLE SUBMARINE SPRING, FLORIDA SITE 108-CUTLER AREA SUBMARINE SPRING, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-099-00024	SITE 095-EVERGLADES, FLORIDA SITE 098-HOMESTEAD, FLORIDA SITE 099-FLORIDA STRAITS SITE 107-CAPE SABLE SUBMARINE SPRING, FLORIDA SITE 108-CUTLER AREA SUBMARINE SPRING, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-106-00023	SITE 106-CLEARWATER/NAPLES SUBMARINE SPRING, FLA.	REGIONAL	17 x 22
NR-F1-GH-107-00024	SITE 095-EVERGLADES, FLORIDA SITE 098-HOMESTEAD, FLORIDA SITE 099-FLORIDA STRAITS SITE 107-CAPE SABLE SUBMARINE SPRING, FLORIDA SITE 108-CUTLER AREA SUBMARINE SPRING, FLORIDA	REGIONAL	17 x 22

## SITE MAPS - HYDROLOGY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-F1-GH-108-00024	SITE 095-EVERGLADES, FLORIDA SITE 098-HOMESTEAD, FLORIDA SITE 099-FLORIDA STRAITS SITE 107-CAPE SABLE SUBMARINE SPRING, FLORIDA SITE 108-CUTLER AREA SUBMARINE SPRING, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-108-00073	SITE 095-EVERGLADES, FLORIDA SITE 108-CUTLER AREA SUBMARINE SPRING, FLORIDA	REGIONAL	17 x 22
NR-F1-FK-118-00090	SITE 118-MISSOURI RIVER, N.D.	REGIONAL	17 x 22
NR-F1-FK-118-00202	SITE 118-MISSOURI RIVER, NORTH DAKOTA	REGIONAL	17 x 22
NR-F1-GJ-124-00082	SITE 124-DELMARVA PENINSULA DEL./ MD./VA.	REGIONAL	17 x 22
NR-F1-GJ-124-00137	SITE 124-DELMARVA PENINSULA, DELAWARE MARYLAND/VIRGINIA	REGIONAL	17 x 22
NR-F1-GJ-124-00173	SITE 124-DELMARVA PENINSULA, DELAWARE MARYLAND/VIRGINIA	REGIONAL	17 x 22
NR-F1-EJ-130-00030	SITE 130-SOUTHERN CALIF.	REGIONAL	17 x 22
NR-F1-GJ-142-00081	SITE 142-DELAWARE ESTUARY, PA./N.J.	REGIONAL	17 x 22
NR-F1-GJ-142-00136	SITE 142-DELAWARE ESTUARY, PA./N.J.	REGIONAL	17 x 22
NR-F1-CL-143-00067	SITE 143-COOK INLET, ALASKA	REGIONAL	17 x 22
NR-F1-FJ-144-00091	SITE 144-WISCONSIN SAND PLAINS	REGIONAL	17 x 22
NR-F1-FJ-144-00092	SITE 144-WISCONSIN SAND PLAINS	DETAIL	17 x 22
NR-F1-GH-145-00150	SITE 145-GULF COAST SPRINGS	REGIONAL	17 x 22
NR-F1-GH-145-00208	SITE 145-GULF COAST SPRINGS	REGIONAL	17 x 22
NR-F1-GH-145-00265	SITE 145-GULF COAST SPRINGS, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-146-00109	SITE 146-ALAFIA/PEACE RIVERS, FLORIDA	REGIONAL	17 x 22



## SITE MAPS - HYDROLOGY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-F1-GH-146-00110	SITE 146-ALAFIA/PEACE RIVERS, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-146-00151	SITE 146-ALAFIA/PEACE RIVERS, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-146-00206	SITE 146-ALAFIA/PEACE RIVERS, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-146-00230	SITE 146-ALAFIA/PEACE RIVERS, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-146-00248	SITE 146-ALAFIA/PEACE RIVERS, FLA.	REGIONAL	17 x 22
NR-F1-GH-147-00149	SITE 147-LAKES/TAMPA, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-147-00205	SITE 147-LAKES/TAMPA, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-147-00225	SITE 147-LAKES/TAMPA, FLORIDA	REGIONAL	17 x 22
NR-F1-GH-147-00269	SITE 147-TAMPA LAKES, FLORIDA	REGIONAL	17 x 22
NR-F1-GJ-148-00084	SITE 148-LEHIGH RIVER, PA.	REGIONAL	17 x 22
NR-F1-4J-151-00079	SITE 151-LONG ISLAND, N.Y.	REGIONAL	17 x 22
NR-F1-4J-151-00140	SITE 151-LONG ISLAND, NEW YORK	REGIONAL	17 x 22
NR-F1-4J-152-00080	SITE 152-BARNEGAT BAY, NEW JERSEY	REGIONAL	17 x 22
NR-F1-4J-152-00085	SITE 152-BARNEGAT BAY, NEW JERSEY	DETAIL	17 x 22
NR-F1-4J-152-00139	SITE 152-BARNEGAT BAY, NEW JERSEY	REGIONAL	17 x 22
NR-F1-4J-152-00218	SITE 152-BARNEGAT BAY, NEW JERSEY	REGIONAL	17 x 22
NR-F1-4J-161-00142	SITE 161-RARITAN RIVER, NEW JERSEY	REGIONAL	17 x 22
NR-F1-4J-161-00217	SITE 161-RARITAN RIVER, NEW JERSEY	REGIONAL	17 x 22
NR-F1-GJ-168-00174	SITE 168-PATUXENT RIVER, MARYLAND SITE 174-WALLOPS ISLAND, VIRGINIA	REGIONAL	17 x 22
NR-F1-GJ-168-00198	SITE 168-PATUXENT RIVER, MARYLAND	REGIONAL	17 x 22
NR-F1-FH-171-00203	SITE 171-SABINE LAKE, LOUISIANA	REGIONAL	17 x 22
NR-F1-FH-171-00236	SITE 171-SABINE LAKE, LOUISIANA	REGIONAL	17 x 22

## SITE MAPS - HYDROLOGY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-F1-GJ-174-00174	SITE 168-PATUXENT RIVER, MARYLAND SITE 174-WALLOPS ISLAND, VIRGINIA	REGIONAL	17 x 22
NR-F1-GJ-174-00194	SITE 174-WALLOPS ISLAND, VIRGINIA	REGIONAL	17 x 22
NR-F1-GJ-174-00195	SITE 174-WALLOPS ISLAND, VIRGINIA	REGIONAL	17 x 22
NR-F1-GJ-174-00196	SITE 174-WALLOPS ISLAND, VIRGINIA	REGIONAL	17 x 22
NR-F1-GJ-174-00197	SITE 174-WALLOPS ISLAND, VIRGINIA	REGIONAL	17 x 22
NR-F1-FH-179-00227	SITE 179-LAGUNA MADRE AND CORPUS CHRISTI, TEXAS	REGIONAL	17 x 22
NR-F1-FH-179-00228	SITE 179-LAGUNA MADRE/CORPUS CHRISTI, TEXAS	REGIONAL	17 x 22
NR-F1-FH-179-00286	SITE 179-LAGUNA MADRE/CORPUS CHRISTI, TEXAS	REGIONAL	17 x 22
NR-F1-FH-179-00287	SITE 179-LAGUNA MADRE/CORPUS CHRISTI, TEXAS	REGIONAL	17 x 22
NR-F1-EJ-181-00215	SITE 181-COLORADO RIVER DELTA	REGIONAL	17 x 22

## **HYDROLOGY**

### **SECTION 2 - SITE DESCRIPTIONS**

## SITE DESCRIPTIONS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F2-JK-040-00024	SITE 040-CASCADE MTNS. (CASCADE GLACIER SITE), WASHINGTON
NR-F2-GH-095-00057	SITE 095-EVERGLADES, FLORIDA
NR-F2-FK-118-00068	SITE 118-MISSOURI RIVER, NORTH DAKOTA
NR-F2-FJ-120-00058	SITE 120-LAKE COLORADO CITY, TEX.
NR-F2-GJ-125-00059	SITE 125-ROXBORO RESERVOIR, N.C.
NR-F2-GJ-142-00061	SITE 142-DELAWARE ESTUARY, PENNSYLVANIA/NEW JERSEY
NR-F2-CL-143-00066	SITE 143-COOK INLET, ALASKA
NR-F2-FJ-144-00065	SITE 144-WISCONSIN SAND PLAINS
NR-F2-GJ-148-00062	SITE 148-LEHIGH RIVER, PENNSYLVANIA

## **HYDROLOGY**

### **SECTION 04 MISSION SCREENING AND SUMMARY REPORTS**

MISSION SCREENING AND SUMMARY REPORTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F4-JK-087-B0022	MISSION NO. 22 SITE 087
NR-F4-GH-998-B0050	MISSION NO. 50 SITES 099, 095, 108, 128
NR-F4-GH-998-B0057	MISSION NO. 57 SITES 146, 158
NR-F4-GH-998-B0067	MISSION NO. 67 SITES FIREANT, 145, 146, 147, 165.
NR-F4-L-166-B0070	MISSION NO. 70 SITE 166
NR-F4-FJ-998-B0080	MISSION NO. 80 SITES 076, 118, 171
NR-F4-HJ-998-B0082	MISSION NO. 82 SITES 152, 161, 176, 147
NR-F4-FH-171-B0087	MISSION NO. 87 SITE 171

## **HYDROLOGY**

### **SECTION 05 TECHNICAL LETTER REPORTS**

## TECHNICAL LETTER REPORTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F5-JO-000-00021	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-21, LAKE SURVEYING TECHNIQUES IN THE GEOLOGICAL SURVEY PROGRESS REPORT, F.E. SKIBITZKE, U.S.G.S., WATER RESOURCES DIVISION, PHOENIX, ARIZONA, AND C.J. ROBINOVE, U.S.G.S., WATER RESOURCES DIVISION, WASHINGTON, D. C. JUNE 1966. CONTRACT NO. R-09-020-009. STAR X66-19232.
NR-F5-JO-000-00050	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-50, A PRELIMINARY EVALUATION OF AIRBORNE AND SPACEBORNE REMOTE SENSING DATA FOR HYDROLOGIC USES. CHARLES J. ROBINOVE, U.S.G.S., WATER RESOURCES DIVISION, WASHINGTON, D.C. JULY 1966. CONTRACT NO. R-09-020-009. STAR X66-20466.
NR-F5-EU-116-00061	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-61, HYDROLOGIC INTERPRETATION OF NIMBUS VIDICON IMAGE -- GREAT SALT LAKE, UTAH. D. C. HAML AND A. H. HANDY, U.S.G.S., WATER RESOURCES DIVISION, SALT LAKE CITY, UTAH, NOVEMBER 1966. CONTRACT NO. R-09-020-015. STAR X67-10480.
NR-F5-JO-000-00068	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-68 HYDROLOGIC EVALUATION OF GEMINI PHOTOGRAPHY OF FRINGES OF THE SAHARA, AFRICA. J.R. JONES, U.S.G.S., WASHINGTON, D.C. APRIL 1967. CONTRACT NO. R-09-020-013.
NR-F5-JO-000-00074	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-74, AERIAL INFRARED SURVEYS IN WATER RESOURCES STUDY. R. M. MOXHAM, U.S.G.S., WASHINGTON, D.C. APRIL 1967. CONTRACT NO. R-146-09-020-006. STAR N68-14987.
NR-F5-JJ-000-00076	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-76 INFRARED IMAGERY OF PART OF THE HIGH CASCADE RANGE AND MCKENZIE RIVER VALLEY, OREGON. DONALD A. SWANSON, U.S.G.S., MENLO PARK, CALIFORNIA. JUNE 1967, CONTRACT NO. R-09-020-015.
NR-F5-HJ-123-00078	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-78. USE OF INFRARED IMAGERY IN CIRCULATION STUDIES OF THE MERRIMACK RIVER ESTUARY, MASSACHUSETTS, DONALD R. WIESNET AND JOHN E. COTTON, U.S.G.S., BOSTON, MASSACHUSETTS, OCTOBER 1967. WORK PERFORMED UNDER COOPERATIVE AGREEMENT BETWEEN THE U.S. GEOLOGICAL SURVEY AND THE WATER RESOURCES COMMISSION OF THE COMMONWEALTH OF MASSACHUSETTS.
NR-F5-EJ-003-00082	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-82. THERMAL ANOMALIES AND GEOLOGIC FEATURES OF THE MONO LAKE AREA, CALIFORNIA, AS REVEALED BY INFRARED IMAGERY. JULES D. FRIEDMAN, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. SEPTEMBER 1968. CONTRACT NUMBER R-146-09-020, STAR N69-41239.



## TECHNICAL LETTER REPORTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F5-EJ-011-00083	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-83. GEOLOGICAL EVALUATION OF INFRARED IMAGERY, EASTERN PART OF YELLOWSTONE NATIONAL PARK, WYOMING AND MONTANA. HARRY W. SMEDES, U.S. GEOLOGICAL SURVEY, DENVER, COLORADO. DECEMBER 1968. CONTRACT NUMBER R-09-020-011. STAR N69-12276.
NR-F5-EJ-101-00084	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-84. RADAR IMAGES - SAN FRANCISCO VOLCANIC FIELD, ARIZONA - A PRELIMINARY EVALUATION, GERALD G. SCHABER, U.S.G.S., FLAGSTAFF, ARIZONA. AUGUST 1967. CONTRACT NO. R-09-020-015. STAR N68-13146.
NR-F5-EJ-011-00093	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-93. EVALUATION OF INFRARED IMAGERY APPLICATIONS TO STUDIES OF SURFICIAL GEOLOGY -- YELLOWSTONE PARK. KENNETH L. PIERCE, U.S. GEOLOGICAL SURVEY, DENVER, COLORADO. MAY 1968. CONTRACT NUMBER R-09-020-015. STAR N68-05120.
NR-F5-JO-000-00096	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-96. VACUUM ULTRAVIOLET MEASUREMENTS OF REFLECTANCE AND LUMINESCENCE FROM VARIOUS ROCK SAMPLES. H.V. WATTS AND H.J. GOLDMAN, IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS. JANUARY 1968. CONTRACT NO. T-65757. (CONTINUATION OF INFORMATION IN TECHNICAL LETTER NASA-32.) STAR N69-28158.
NR-F5-JO-000-00101	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-101. THE REMOTE MEASUREMENT OF RHODAMINE B CONCENTRATION WHEN USED AS FLUORESCENT TRACER IN HYDROLOGIC STUDIES. H.T. BETZ, IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS. JANUARY 1968. CONTRACT NO. R-146-09-02-006. STAR N69-28396.
NR-F5-JK-040-00107	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-107. SYNOPTIC TEMPERATURE MEASUREMENTS OF A GLACIER LAKE AND ITS ENVIRONMENT. WILLIAM J. CAMPBELL, U.S.G.S., TACOMA, WASHINGTON. FEBRUARY 1968. CONTRACT NO. R-146-09-020-006. STAR N69-28506.
NR-F5-EJ-011-00109	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-109. GEOTHERMAL STUDIES - YELLOWSTONE NATIONAL PARK (TEST SITE 11), WYOMING. D.E. WHITE, R.O. FOURNIER, L.J.P. M. FLER, AND A.W. TRUESDELL, U.S. GEOLOGICAL SURVEY, MENLO PARK, CALIFORNIA. MAY 1968. TASK NO. 160-75-01-52-10. STAR N68-25251.

## TECHNICAL LETTER REPORTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F5-DJ-061-00110	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-110. AERIAL INFRARED IMAGES OF THE GEYSERS GEOTHERMAL STEAM FIELD AND VICINITY, SONOMA COUNTY, CALIFORNIA. ROBERT M. MOXHAM, U.S.G.S., WASHINGTON, D.C. MAY 1968. CONTRACT NUMBER T-65754-G. STAR N69-28453.
NR-F5-DJ-061-00123	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-123. AERIAL INFRARED SURVEYS AT THE GEYSERS GEOTHERMAL STEAM FIELD, CALIFORNIA. ROBERT M. MOXHAM, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. SEPTEMBER 1968. CONTRACT NO. T-65754-G. STAR N68-37353.
NR-F5-DJ-000-00127	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-127. REMOTE DETECTION OF SOLAR STIMULATED LUMINESCENCE. WILLIAM R. HEMPHILL, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. SEPTEMBER 1968. CONTRACT NUMBER T-65757. STAR N69-10855.
NR-F5-DJ-000-00134	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-134. BIBLIOGRAPHY OF REMOTE SENSING OF EARTH RESOURCES FOR HYDROLOGICAL APPLICATIONS, 1960-1967. RITA K. LLAVERRIAS, U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, ARLINGTON, VA. NOVEMBER 1968. CONTRACT NUMBER R-146-09-020-011. STAR N69-28505.
NR-F5-DJ-000-00158*	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-158. FRAUNHOFER LINE-DEPTH SENSING APPLIED TO WATER. GEORGE E. STOERTZ, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1969. CONTRACT NUMBER T-80-85C.

## **HYDROLOGY**

### **SECTION 07 SUMMARY REPORTS**

SUMMARY REPORTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F7-10-000-00034	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES. HYDROLOGY-NO. 2. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR 09-012-909. STAR N69-28360.

## **HYDROLOGY**

### **SECTION 08 SUBJECT RELATED DOCUMENTS**

## SUBJECT RELATED DOCUMENTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F8-30-000-00019	WATER RESOURCES RESEARCH CATALOG, VOLUME 2. OFFICE OF WATER RESOURCES RESEARCH, U.S. DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. NOVEMBER 1966.
NR-F8-30-000-00158	INDEX TO CATALOG OF INFORMATION ON WATER DATA, WATER QUALITY STATIONS. EDITION 1967. COMPILED BY K.F. HARRIS, J.R. RAPP, AND W.W. DOVEL, U.S. DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, OFFICE OF WATER DATA COORDINATION, WASHINGTON, D.C.
NR-F8-30-000-00171	ICE OBSERVATIONS 1964. HUDSON BAY AND APPROACHES. METEOROLOGICAL BRANCH, DEPT. OF TRANSPORT, OTTAWA, CANADA. 1964. STAR X68-12805
NR-F8-30-000-00185	WATER RESOURCES RESEARCH CATALOG, VOL. 3. OFFICE OF WATER RESOURCES RESEARCH, U.S. DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. DECEMBER 1967.
NR-F8-30-000-00213	FEDERAL PLAN FOR COORDINATION OF NATIONAL NETWORK AND SPECIALIZED WATER-DATA ACQUISITION ACTIVITIES, 1966 FISCAL YEAR. U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. NOVEMBER 1966.
NR-F8-30-000-00235*	BIBLIOGRAPHY ON SNOW, ICE AND FROZEN GROUND. VOL. XXII. REPORT NO. CRRL 12. U.S. ARMY, COLD REGIONS RESEARCH AND ENGINEERING LAB., HANOVER, NEW HAMPSHIRE. JUNE 1968. MICROFICHE COPY. STAR N68-35240.
NR-F8-30-000-00320*	ANNOTATED BIBLIOGRAPHY ON HYDROLOGY AND SEDIMENTATION 1963-1965. JOINT HYDROLOGY-SEDIMENTATION BULLETIN NO. 9. U.S. DEPT. OF AGRICULTURE, WASHINGTON, D.C. JUNE 1969.
NR-F8-30-000-00345*	REMOTE SENSING OF CROP WATER DEFICITS AND ITS POTENTIAL APPLICATIONS. AN ANNOTATED BIBLIOGRAPHY. TECHNICAL REPORT RSC-06. W.P. DAVID, TEXAS A + M UNIVERSITY, REMOTE SENSING CENTER, COLLEGE STATION, TEXAS. SEPTEMBER 1969.
NR-F8-30-000-00346*	REMOTE SENSING OF CROP WATER DEFICITS - BIBLIOGRAPHY WITH ABSTRACTS. TECHNICAL REPORT RSC-07. W.P. DAVID, TEXAS A + M UNIVERSITY, REMOTE SENSING CENTER, COLLEGE STATION, TEXAS. SEPTEMBER 1969.
NR-F8-3H-057-00380*	FRESH-WATER SPRINGS OF HAWAII FROM INFRARED IMAGES. REPORT NO. ATLAS HA-218. WILLIAM A. FISCHER, DAN A. DAVIS AND THERESA M. SOUSA, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1966.

## **HYDROLOGY**

### **SECTION 09 TECHNICAL REPORTS**

## TECHNICAL REPORTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F9-GJ-000-00081	AN EVALUATION OF RADAR IMAGERY AS A TOOL FOR DRAINAGE BASIN ANALYSIS, CRES TECHNICAL REPORT 61-31, ROGER M. MCCOY, REMOTE SENSING LABORATORY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, AUGUST 1967, CONTRACT NOS. NSR 17-004-003 AND GRANT NSG-298, STAR N69-11953,
NR-F9-JD-000-00159	AUTOMATIC MEASUREMENT AND REDUCTION OF DRAINAGE BASIN DATA, TECHNICAL MEMORANDUM 61-52, G. JALKE AND R. MCCOY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, AUGUST 1966, CONTRACT NUMBER NSR 17-004-003,
NR-F9-JD-000-00226	PASSIVE MICROWAVE MEASUREMENTS OF SNOW AND SOIL, VOLUME 1, INSTRUMENTATION AND MEASUREMENTS, TECHNICAL REPORT NO. 2, SGC 829R-4, J.M. KENNEDY, ET. AL., SPACE-GENERAL, A DIVISION OF AEROJET-GENERAL CORPORATION, EL MONTE, CALIF. NOVEMBER 5, 1966, CONTRACT NUMBER NONR 4767(00).
NR-F9-JD-000-00227	PASSIVE MICROWAVE MEASUREMENTS OF SNOW AND SOIL, VOLUME 11, ANALYSIS, TECHNICAL REPORT NO. 2, SGC 829R-4, J.M. KENNEDY, ET. AL., SPACE-GENERAL, A DIVISION OF AEROJET-GENERAL CORPORATION, EL MONTE, CALIFORNIA, NOVEMBER 5, 1966, CONTRACT NUMBER NONR 4757(00).
NR-F9-GH-163-00376	APPLICATIONS OF REMOTE PHOTOGRAPHY TO THE STUDY OF COASTAL ECOLOGY IN BISCAYNE BAY, FLORIDA, MAHLON G. KELLY, DEPT. OF BIOLOGY, UNIVERSITY OF MIAMI, CORAL GABLES, FLORIDA, JULY 1969, CONTRACT NUMBER N-62306-69-C-0032,
NR-F9-JD-000-00436	MANAGEMENT OF HYDROLOGIC SYSTEMS FOR WATER QUALITY CONTROL, PHILIP C. WOOD, SANITARY ENGINEERING RESEARCH LABORATORY, COLLEGE OF ENGINEERING AND SCHOOL OF PUBLIC HEALTH, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA, CONTRIBUTION NO. 121, JUNE 1967,
NR-F9-EJ-000-00469*	PLAYA SURFACE MORPHOLOGY - MISCELLANEOUS INVESTIGATIONS, REPORT NO. AFCRL-68-0133, AIR FORCE CAMBRIDGE RESEARCH LAB, BEDFORD MASS, MARCH 1968, MICROFICHE COPY, STAR N68-27352
NR-F9-GJ-043-00482	HEAVY SNOW IN THE CHICAGO AREA AS REVEALED BY SATELLITE PICTURES, SATELLITE AND MESOMETEOROLOGY RESEARCH PROJECT, PAPER NO. 75, JAMES BLUNTING AND DONNA LAMB, DEPARTMENT OF GEOPHYSICAL SCIENCES, THE UNIVERSITY OF CHICAGO, JULY 1968, GRANT NUMBER CWB WBG-34, STAR N69-15965,



## TECHNICAL REPORTS - HYDROLOGY

## ACCESSION NUMBER

## DESCRIPTION

- NR-F9-3J-012-00496 OPTICAL PROPERTIES OF CLEAR NATURAL WATER, RAYMOND C. SMITH AND JOHN E. TYLER, SCRIPPS INSTITUTION OF OCEANOGRAPHY, UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA. REPRINTED FROM JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 57, NO. 5, MAY 1967. PP.589-595.
- NR-F9-30-000-00511 OPERATIONAL SNOW MAPPING FROM SATELLITE PHOTOGRAPHY, JAMES C. BARNES AND CLINTON J. BOWLEY, ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. CONTRACT NUMBER E-196-68. PRESENTED AT EASTERN SNOW CONFERENCE, FEBRUARY 1969, PORTLAND, MAINE.
- NR-F9-30-000-00512 SATELLITE PHOTOGRAPHY FOR SNOW SURVEILLANCE IN WESTERN MOUNTAINS. JAMES C. BARNES AND CLINTON J. BOWLEY, ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. PRESENTED AT WESTERN SNOW CONFERENCE, SALT LAKE CITY, UTAH. APRIL 1969.
- NR-F9-30-000-00517 PHOTOGRAMMETRY APPLIED TO ARCTIC GLACIER SURVEY. WOLFGANG FAIG, DEPARTMENT OF SURVEYING ENGINEERING, UNIVERSITY OF NEW BRUNSWICK, CANADA. FEBRUARY 1966. STAR X66-18589.
- NR-F9-30-000-00553\* LONG-DISTANCE AIRBORNE GLACIAL SOUNDING. TECHNICAL REPORT ECOM-2887. JOHN W. WALKER, U.S. ARMY, ELECTRONICS COMMAND, FORT MONMOUTH, NEW JERSEY. SEPTEMBER 1967. MICROFICHE COPY. STAR N68-37759.
- \* NR-F9-30-000-00558\* EVALUATION OF MULTISPECTRAL IMAGERY FOR A TIDAL MARSH ENVIRONMENT. RAYMOND PESTRONG, STANFORD UNIVERSITY, GEOPHYSICS DEPT., REMOTE SENSING LAB., STANFORD, CALIFORNIA. 1968. CONTRACT NUMBER NONR 4430(00). MICROFICHE COPY. STAR N68-34661.
- NR-F9-30-000-00563\* ALBEDO OF ICE IN THE ARCTIC SEAS ACCORDING TO DATA FROM AIRCRAFT OBSERVATIONS. A. YA. BUZUYEV, ET AL., RAND CORP., SANTA MONICA, CALIFORNIA. APRIL 1968. MICROFICHE COPY. STAR N69-12339.
- NR-F9-3L-093-00570\* MULTISPECTRAL SURVEY OF ARCTIC REGIONS. FINAL REPORT. ROBERT HORVATH, UNIVERSITY OF MICHIGAN, INSTITUTE OF SCIENCE AND TECHNOLOGY, WILLOW RUN LABORATORIES, ANN ARBOR, MICH. JANUARY 1968. CONTRACT NO. DA-28-043-AMC-0013(E). STAR N68-32521. MICROFICHE COPY.
- NR-F9-30-000-00571\* THE EFFECT OF RAIN CLOUDS ON THE DESIGN OF RADAR ALTIMETERS. C.H. BIDWELL, SANDIA CORP., ALBUQUERQUE, NEW MEXICO. OCTOBER 1961. PUBLISHED IN NUCLEAR ABSTRACTS, 16.3184 (SCR-430).

## TECHNICAL REPORTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F9-JO-000-00579*	BREAKUP OF ICE, MEADE RIVER, ALASKA. SPECIAL REPORT 118. PHILIP L. JOHNSON, U.S. ARMY, COLD REGIONS RESEARCH AND ENGINEERING LAB, HANOVER, NEW HAMPSHIRE, OCTOBER 1967, MICROFICHE COPY. STAR N68-26340.
NR-F9-EJ-000-00592*	A TECHNIQUE FOR SAMPLING GENERAL FISH HABITAT CHARACTERISTICS OF STREAMS. U.S. FOREST SERVICE RESEARCH PAPER INT-41, 1967. ROSCOE B. HERRINGTON AND DONALD K. DUNHAM, U.S. DEPT. OF AGRICULTURE, INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION, FOREST SERVICE, OGDEN, UTAH.
NR-F9-JO-000-00600*	MANUAL OF FORECASTING ICE-FORMATION FOR RIVERS AND INLAND LAKES. MANUAL OF HYDROLOGICAL FORECASTING, NO. 4. MAIN ADMINISTRATION OF THE HYDROMETEOROLOGICAL SERVICE, CENTRAL FORECASTING INSTITUTE, RUSSIA. 1963. STAR N68-82744.
NR-F9-JO-000-00604	A RAINFALL RATE SENSOR. TECHNICAL MEMORANDUM ERLTM-NSSI 42. BRIAN E. MORGAN, ESSA COAST AND GEODETIC SURVEY, NATIONAL SEVERE STORMS LABORATORY, NORMAN, OKLAHOMA. NOVEMBER 1968.
NR-F9-4J-998-00639*	INFRARED IMAGING FOR WATER RESOURCES STUDIES. JAMES I. TAYLOR, PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA. AND RONALD W. STINGELIN, HRB-SINGER, INC., STATE COLLEGE, PA. PUBLISHED IN PROCEEDINGS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS, VOL. 95, JAN. 1969. PP.175-189.
NR-F9-JO-000-00641*	AERIAL PHOTO TECHNIQUES FOR RECREATION INVENTORY OF MOUNTAIN LAKES AND STREAMS. U.S. FOREST SERVICE RESEARCH PAPER INT-37. ROSCOE B. HERRINGTON AND C. ROSS TOCHER, U.S. DEPT. OF AGRICULTURE, INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION, OGDEN, UTAH. 1967.
NR-F9-JO-000-00647*	THE NEAR INFRARED ABSORPTION OF LIQUID WATER. J.A. CURCIO, AND C.C. PETTY, U.S. NAVAL RESEARCH LAB., WASHINGTON, D.C. PUBLISHED IN JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 41, NO. 5, MAY 1951. PP.302-304.
NR-F9-3H-998-00648*	REMOTE-SENSING APPLICATIONS TO HYDROBIOLOGY IN SOUTH FLORIDA. MILTON C. KOLIPINSKI AND AARON L. HIGER, U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIV., MIAMI, FLORIDA. REPRINTED FROM NATIONAL AERONAUTICS AND SPACE ADMINISTRATION EARTH RESOURCES AIRCRAFT PROGRAM, STATUS REVIEW, VOL. II, HYDROLOGY, OCEANOGRAPHY, AND SENSOR STUDIES, PRESENTED AT THE NASA/MANNED SPACECRAFT CENTER, HOUSTON, TEXAS, SEPTEMBER 16 - 18, 1968.

## TECHNICAL REPORTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F9-70-000-00649*	CONTRIBUTION TO THE SELECTION OF RADIOACTIVE TRACERS FOR HYDROGEOLOGY. (TRANSLATED FROM FRENCH). A. LALLEMAND, BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES, PARIS, FRANCE, JUNE 1969. STAR N69-35940.
NR-F9-4M-000-00650*	AERIAL ICE OBSERVING AND RECONNAISSANCE - BAFFIN BAY, DAVID STRAIT AND FOXE BASIN, METEOROLOGICAL BRANCH, DEPT. OF TRANSPORT, CANADA, 1961. STAR X69-85043.
NR-F9-30-000-00666*	SATELLITE SNOW SURVEILLANCE - A DOWN-TO-EARTH USE OF SPACE TECHNOLOGY. JAMES C. BARNES AND CLINTON J. BOWLEY, ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. PRESENTED AT SPACE TECHNOLOGY, AND SOCIETY, MARCH 1969. CAPE CANAVERAL, FLA. VOL. 1, PP.5-1 - 5-12.
NR-F9-30-000-00687*	NAVIGATION SYSTEMS USED FOR ICE RECONNAISSANCE IN CANADA. H.J. BELL, TELECOMMUNICATIONS AND ELECTRONICS BRANCH, DEPT. OF TRANSPORT, CANADA. PUBLISHED IN CANADIAN AERONAUTICS AND SPACE JOURNAL, VOL. 14, NO. 10, DEC. 1968. PP.399-406.
NR-F9-4J-000-00707*	PROJECT AQUA-MAP DEVELOPMENT OF AERIAL PHOTOGRAPHY AS AN AID TO WATER QUALITY MANAGEMENT. REPORT NO. CAL VT-2449-0-1. G. NEUMAIER, F. SILVESTRO, ET AL., CORNELL AERONAUTICAL LABORATORY, INC., BUFFALO, N.Y. SEPTEMBER 1967, CONTRACT NUMBER HC-9768.
NR-F9-4J-000-00708*	PROJECT AQUA-MAP II DEVELOPMENT OF AERIAL PHOTOGRAPHY AS AN AID TO WATER QUALITY MANAGEMENT. CAL FINAL REPORT VT-2614-0-1. FRANK B. SILVESTRO AND KENNETH R. PIECH, CORNELL AERONAUTICAL LAB., INC., BUFFALO, N.Y. JANUARY 1969. CONTRACT NUMBER D26064.
NR-F9-3J-000-00736*	INTERPRETATION OF GROUND WATER OF TYPICAL LANDSCAPES IN THE CASPIAN LOWLAND ON AERIAL PHOTOGRAPHS. B.V. VINOGRADOV, ET AL., ACADEMY OF SCIENCES, LABORATORIIA AEROMETODOV, USSR, 1962. MICROFICHE COPY. STAR N70-11529.
NR-F9-30-000-00738*	THE EFFECT OF UNDERLYING SURFACE ON READINGS OF THE RVTD-A RADIO ALTIMETER. N.P. KOZHEVNILOV, AIR FORCE SYSTEMS COMMAND, WRIGHT-PATTERSON AFB, OHIO. PUBLISHED IN GEODEZIYA I KARTOGRAFIYA, NO. 1, 1968. PP.49-55.
NR-F9-3J-000-00744*	AERIAL PHOTOGRAPHIC METHOD FOR STUDYING GROUND WATER. G.E. MEER, ET AL., USSR 1962. STAR N69-40218, MICROFICHE COPY.

## TECHNICAL REPORTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F9-3J-000-00756*	STUDY OF THE SPECTRAL BRIGHTNESS OF SOME LANDSCAPE ELEMENTS FOR INTERPRETATION OF GROUND WATER ON AERIAL PHOTOGRAPHS. REPORT NO. FSTC-HT-23-253-68. E.S. ARTSYBASHEV, USSR, 1962. MICROFICHE COPY. STAR N70-11722.
NR-F9-3H-095-00776*	APPLICATIONS OF AERIAL PHOTOGRAPHY AND REMOTE SENSING TO HYDROBIOLOGICAL RESEARCH IN SOUTH FLORIDA. U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT, MILTON C. KOLIPINSKI AND AARON L. HIGER, U.S. GEOLOGICAL SURVEY, MIAMI, FLORIDA. FEB. 1968.
NR-F9-30-000-00779*	INDUSTRIAL EFFLUENT DIFFUSION IN RIVERS. A NEW APPROACH TO THEORY AND MEASUREMENT. KENNETH R. PIECH, FRANK B. SILVESTRO, ET AL., CORNELL AERONAUTICAL LAB., INC., BUFFALO, NEW YORK. REPRINTED FROM THE PROCEEDINGS OF THE INSTITUTE OF ENVIRONMENTAL SCIENCES, 15TH ANNUAL TECHNICAL MEETING, ANAHEIM, CALIFORNIA, APRIL 1969.
NR-F9-30-000-00823*	SPACE APPLICATIONS IN WATER RESOURCE DEVELOPMENT. CHARLES J. ROBINOV, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PRESENTED AT THE U.N. CONFERENCE ON THE EXPLORATION AND PEACEFUL USES OF OUTER SPACE, VIENNA, AUSTRIA. AUG. 1968. STAR N69-41211.
NR-F9-30-000-00835*	SURFACE MEASUREMENTS OF SNOW AND ICE FOR CORRELATION WITH AIRCRAFT AND SATELLITE OBSERVATIONS. REPORT NO. CRREL-SR-127, MICHAEL A. BILELLO, U.S. ARMY COLD REGIONS RESEARCH AND ENGINEERING LAB., FANOVER, N.H. MAY 1969. STAR N69-37762.
NR-F9-30-000-00931*	INTERPRETATION OF GROUND WATER OF TYPICAL LANDSCAPES IN TURKMENIA ON AERIAL PHOTOGRAPHS. G. YA. MEYER, ET AL., USSR. TRANSLATION OF AKADEMIYA NAUK, SSSR, LABORATORIYA AEROMETODOV PRIMENENIES AEROMETODOV DLIYA IZUCHENIYA GRUNTOVYKH, VOD. 1962, PP.16-32. STAR N69-40545. MICROFICHE COPY.
NR-F9-30-000-00979*	LANDSCAPE INVESTIGATIONS OF RESERVOIRS USING AERIAL METHODS. N.N. SOKOLOV, USSR. TRANSLATED FROM SELSKOKHOZIASTVENNAIA AKADEMIYA, 1964, PP.217-224. STAR N70-10609. MICROFICHE COPY.
NR-F9-3J-167-00982*	GREAT LAKES ICE COVER WINTER 1962-63 AND 1963-64. DONALD R. RONDY, GREAT LAKES RESEARCH CENTER, LAKE SURVEY DISTRICT, CORPS OF ENGINEERS, DETROIT, MICHIGAN. JUNE 1969. MICROFICHE COPY.

# OCEANOGRAPHY

**OCEANOGRAPHY**  
**SECTION 01 SITE MAPS**

## SITE MAPS - OCEANOGRAPHY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
VR-G1-EJ-026-00255	SITE - LA JOLLA, CALIFORNIA	REGIONAL	17 x 22
VR-G1-4J-086-00016	SITE 086-ARGUS ISLE, BERMUDA	REGIONAL	17 x 22
VR-G1-4J-086-00017	SITE 086-ARGUS ISLE, BERMUDA	DETAIL	17 x 22
VR-G1-4J-086-00056	SITE 086-ARGUS ISLE, BERMUDA	REGIONAL	17 x 22
VR-G1-4J-086-00057	SITE 086-ARGUS ISLE, BERMUDA	DETAIL	17 x 22
VR-G1-JK-087-00026	SITE 087-GOOSE BAY, LABRADOR	REGIONAL	17 x 22
VR-G1-3L-093-00068	SITE 093-PT. BARROW, ALASKA	REGIONAL	17 x 22
VR-G1-3L-093-00069	SITE 093-PT. BARROW, ALASKA	REGIONAL	17 x 22
VR-G1-GH-099-00062	SITE 099-FLORIDA STRAITS	REGIONAL	17 x 22
VR-G1-GH-099-00071	SITE 099-FLORIDA STRAITS	REGIONAL	17 x 22
VR-G1-GH-099-00074	SITE 099-FLORIDA STRAITS	REGIONAL	17 x 22
VR-G1-GH-128-00045	SITE 128-MISSISSIPPI DELTA, LA.	REGIONAL	17 x 22
VR-G1-GH-128-00054	SITE 128-MISSISSIPPI DELTA, LA.	REGIONAL	17 x 22
VR-G1-GH-128-00060	SITE 128-MISSISSIPPI DELTA, LA.	REGIONAL	17 x 22
VR-G1-GH-128-00061	SITE 128-MISSISSIPPI DELTA, LA.	REGIONAL	17 x 22
VR-G1-GH-128-00064	SITE 128-MISSISSIPPI DELTA, LA.	REGIONAL	17 x 22
VR-G1-GH-128-00065	SITE 128-MISSISSIPPI DELTA, LA.	REGIONAL	17 x 22
VR-G1-GH-128-00075	SITE 128-MISSISSIPPI DELTA, LA.	REGIONAL	17 x 22
VR-G1-GH-128-00103	SITE 128-MISSISSIPPI DELTA, LA.	REGIONAL	17 x 22
VR-G1-GH-128-00157	SITE 128-MISSISSIPPI DELTA, LOUISIANA	REGIONAL	17 x 22
VR-G1-4J-138-00046	SITE 138-GULF STREAM NORTH	REGIONAL	17 x 22
VR-G1-GJ-148-00182	SITE 148-LEHIGH RIVER, PENNSYLVANIA	REGIONAL	17 x 22

## SITE MAPS - OCEANOGRAPHY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-G1-GH-155-00072	SITE 155-GULF COAST FISHERIES	REGIONAL	17 x 22
NR-G1-GH-155-00155	SITE 155-GULF COAST FISHERIES	REGIONAL	17 x 22
NR-G1-GH-155-00199	SITE 155-GULF COAST FISHERIES	REGIONAL	17 x 22
NR-G1-FH-158-00108	SITE 158-CORPUS CHRISTI, TEXAS/ GULF OF MEXICO	REGIONAL	17 x 22
NR-G1-JK-160-00115	SITE 160-NEWFOUNDLAND COAST(ARGENTIA)	REGIONAL	17 x 22
NR-G1-JK-160-00116	SITE 160-NEWFOUNDLAND COAST(ARGENTIA)	REGIONAL	17 x 22
NR-G1-GH-162-00154	SITE 162-BAHAMA BANKS, FLORIDA	REGIONAL	17 x 22
NR-G1-GH-162-00177	SITE 162-BAHAMA BANKS, FLORIDA	REGIONAL	17 x 22
NR-G1-GH-163-00153	SITE 163-BISCAYNE BAY, FLORIDA	REGIONAL	17 x 22
NR-G1-GH-163-00210	SITE 163-BISCAYNE BAY, FLORIDA	REGIONAL	17 x 22
NR-G1-GH-163-00268	SITE 163-BISCAYNE BAY, FLORIDA SITE 169-FLORIDA KEYS, FLORIDA	REGIONAL	17 x 22
NR-G1-L-166-00158	SITE 166-ICELAND	REGIONAL	17 x 22
NR-G1-L-166-00159	SITE 166-ICELAND	REGIONAL	17 x 22
NR-G1-L-166-00161	SITE 166-ICELAND	REGIONAL	17 x 22
NR-G1-L-166-00162	SITE 166-ICELAND	REGIONAL	17 x 22
NR-G1-L-166-00241	SITE 166-NORTH ATLANTIC	REGIONAL	17 x 22
NR-G1-L-166-00242	SITE 166-NORTH ATLANTIC	REGIONAL	17 x 22
NR-G1-L-166-00243	SITE 166-NORTH ATLANTIC	REGIONAL	17 x 22
NR-G1-L-166-00244	SITE 166-NORTH ATLANTIC	REGIONAL	17 x 22
NR-G1-L-166-00245	SITE 166-NORTH ATLANTIC	REGIONAL	17 x 22
NR-G1-L-166-00246	SITE 166-NORTH ATLANTIC	REGIONAL	17 x 22
NR-G1-JJ-167-00166	SITE 167-LAKE MICHIGAN	REGIONAL	17 x 22



## SITE MAPS - OCEANOGRAPHY

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-G1-GJ-167-00167	SITE 167-LAKE MICHIGAN	REGIONAL	17 x 22
NR-G1-GH-169-00266	SITE 169-FLORIDA KEYS, FLORIDA	REGIONAL	17 x 22
NR-G1-GH-169-00268	SITE 163-BIG WINE BAY, FLORIDA SITE 169-FLORIDA KEYS, FLORIDA	REGIONAL	17 x 22
NR-G1-GH-172-00193	SITE 173-GULF LOOP SITE 172-YUCATAN PENINSULA	REGIONAL	17 x 22
NR-G1-GH-173-00193	SITE 173-GULF LOOP SITE 172-YUCATAN PENINSULA	REGIONAL	17 x 22
NR-G1-PH-704-00263	SITE 705-VERACRUZ, MEXICO	REGIONAL	17 x 22

**OCEANOGRAPHY**  
**SECTION 02 SITE DESCRIPTIONS**

SITE DESCRIPTIONS - OCEANOGRAPHY

ACCESSION NUMBER

DESCRIPTION

NR-G2-4J-086-00038 SITE 086-ARGUS ISLE, BERMUDA  
NR-G2-JK-087-00039 SITE 087-GOOSE BAY, LABRADOR  
NR-G2-EJ-096-00045 SITE 096-DIXIE/FISH LAKE NATIONAL FOREST, UTAH  
NR-G2-GH-099-00047 SITE 099-FLORIDA STRAITS

**OCEANOGRAPHY**  
**SECTION 04 MISSION SCREENING AND**  
**SUMMARY REPORTS**

## MISSION SCREENING AND SUMMARY REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-G4-4J-086-B0020	MISSION NO. 20 SITE 086
VR-G4-GH-128-B0026	MISSION NO. 26 SITE 128
VR-G4-GH-128-B0037	MISSION NO. 37 SITE 128
VR-G4-4J-086-B0038	MISSION NO. 38 SITE 086
VR-G4-GH-128-B0041	MISSION NO. 41 SITE 128
VR-G4-CL-998-B0047	MISSION NO. 47 SITES 143, 093
VR-G4-GH-998-B0049	MISSION NO. 49 SITES 099, 155
VR-G4-GH-998-B0058	MISSION NO. 58 SITES 128, CAPE KENNEDY, TITUSVILLE, FLORIDA
VR-G4-JK-160-B0060	MISSION NO. 60 SITE 160
VR-G4-L-166-B0088	MISSION NO. 88 SITE 166
VR-G4-DJ-007-B0099	MISSION NO. 99 SITE 007
VR-G4-GH-998-A0114	MISSION 114, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITES 155, 163, AND 169
VR-G4-4J-086-A0119	MISSION 119, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITE 086
VR-G4-GH-128-A0135	MISSION 135, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITE 128

## **OCEANOGRAPHY**

### **SECTION 05 TECHNICAL LETTER REPORTS**

TECHNICAL LETTER REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G5-DO-C00-00167	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER VASA-167. AIRBORNE FLUOROMETER APPLICABLE TO MARINE AND ESTUARINE STUDIES. GEORGE E. STOERTZ AND WILLIAM R. HEMPHILL, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. DAVID A. MARKLE, PERKIN-ELMER CORP., NORWALK, CONN. JAN. 1970. CONTRACT NO. T-80485C. REPRINTED FROM MARINE TECHNOLOGY SOCIETY JOURNAL, NOV.-DEC. 1969, VOL. 3, NO. 6, PP.11-26.
NR-G5-FJ-C85-00173	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER VASA-173. THE COMPLEMENTARY ROLES OF AERIAL PHOTOGRAPHY AND RADAR IMAGING RELATED TO WEATHER CONDITIONS. DAVID S. SIMONETT, JOE R. EAGLEMAN, ET AL., UNIVERSITY OF KANSAS, DEPT. OF GEOGRAPHY, LAWRENCE, KANSAS. JUNE 1969. CONTRACT NUMBER W-12570.

**OCEANOGRAPHY**  
**SECTION 07 SUMMARY REPORTS**



## SUMMARY REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G7-30-000-00004	OCEANOGRAPHY FROM SPACE, PROCEEDINGS OF CONFERENCE ON THE FEASIBILITY OF CONDUCTING OCEANOGRAPHIC EXPLORATIONS FROM AIRCRAFT, MANNED ORBITAL AND LUNAR LABORATORIES, AUGUST 24 - 28, 1964, WOODS HOLE, OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MASSACHUSETTS, APRIL 1965, CONTRACT NO. NSR-22-014-003, STAR N65-30350.
NR-G7-30-000-00006	THE FEASIBILITY OF SEA SURFACE TEMPERATURE DETERMINATION USING SATELLITE INFRARED DATA, NASA CR-474, JAMES R. GREAVES RAYMOND WEXLER AND CLINTON J. BOWLEY, ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS, MAY 1966, CONTRACT NO. NASW-1157 STAR N66-24393.
NR-G7-30-000-00036	SPACE APPLICATIONS SUMMER STUDY 1969, 'USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES, OCEANOGRAPHY-NO. 5, NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR 09-012-909, STAR N69-28072.
NR-G7-3J-998-00047	EARTH RESOURCES AIRCRAFT PROGRAM STATUS REVIEW, VOL. 3, HYDROLOGY, OCEANOGRAPHY, AND SENSOR STUDIES, EARTH RESOURCES DIVISION, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS, 1969.
NR-G7-30-000-00050	SATELLITES CAPABLE OF OCEANOGRAPHIC DATA ACQUISITION - A REVIEW, REPORT NO. TR-215, PAUL E. LAVIOLETTE AND SANDRA E. SEIM, U.S. NAVY DEPT., OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. MAY 1969.
NR-G7-3J-998-00059	ANNEX A. A REVIEW OF ACHIEVEMENTS IN REMOTE SENSING FOR OCEANOGRAPHY, ANNUAL REPORT, OCT. 1965 - SEPT. 1966, U.S. NAVY DEPT., NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. STAR X68-81950.

## **OCEANOGRAPHY**

### **SECTION 08 SUBJECT RELATED DOCUMENTS**

## SUBJECT RELATED DOCUMENTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G8-JO-000-00018	DATA (OCEANOGRAPHY ISSUE) VOL. 9, NO. 5, MAY 1964
NR-G8-JO-000-00066*	REFRACTIVE INDEX OF WATER IN THE INFRARED. MARVIN R. QUERRY AND BASIL CURNUTTE, KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS. PUBLISHED IN THE JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 59, NO. 10, OCT. 1969, PP.1299-1305.
NR-G8-JO-000-00146	BIBLIOGRAPHY ON THE USE OF SATELLITES FOR OCEANOGRAPHIC OBSERVATIONS. WILLIAM K. WIDGER, JR. AND JAMES R. GREAVES, ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. APRIL 1968. CONTRACT NUMBER NASW-1651.
NR-G8-JO-000-00157	ILLUSORY LAND IN THE ARCTIC. V.S. ANTONOV, ARCTIC RESEARCH OBSERVATORY, DICKSON ISLAND, CANADA. TRANSLATED FROM PRIRODA, 1967, NO. 12, P.68. STAR NO. N68-27702.
NR-G8-JK-998-00202	REPORT OF THE ARCTIC ICE OBSERVING AND FORECASTING PROGRAM. 1965. REPORT NO. SP-70(65). U.S. NAVY DEPT., OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. MAY 1967. STAR N68-86204.
NR-G8-JJ-998-00204	SPACECRAFT OCEANOGRAPHY 1964-1967. INFORMAL REPORT, CHARLES C. BATES AND JOHN W. SHERMAN, U.S. NAVY DEPARTMENT, NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. MAY 1968. STAR X68-20409
NR-G8-JK-998-00231*	REPORT OF THE ARCTIC ICE OBSERVING AND FORECASTING PROGRAM 1964. SP-70(64). U.S. NAVY DEPT., NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. DECEMBER 1965. MICROFICHE COPY. STAR N66-31276.
NR-G8-JO-000-00277*	METEOROLOGICAL INTERPRETATION OF NIMBUS HIGH RESOLUTION INFRARED (HRIR) DATA. NASA CR-352, W.K. WIDGER, JR., J.C. BARNES, ET AL., ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. AUGUST 1965. CONTRACT NO. NAS 5-9554. STAR N66-17661.
NR-G8-JO-000-00284*	SATELLITE STUDIES OF CLOUDS AND CLOUD BANDS NEAR THE LOW-LEVEL JET. WILLIAM D. BONNER AND FRANK WINNINGHOFF, UNIV. OF CALIFORNIA, LOS ANGELES, CALIFORNIA. PUBLISHED IN MONTHLY WEATHER REVIEW, VOL. 97, NO. 7, JULY 1969, PP.490-500. MICROFICHE COPY.
NR-G8-JO-000-00285*	INTERACTION BETWEEN SUBTROPICAL AND POLAR-FRONT JET STREAM. E.R. REITE, ET AL., COLORADO STATE UNIVERSITY, DEPT. OF ATMOSPHERIC SCIENCE, FT. COLLINS, COLORADO. PUBLISHED IN MONTHLY WEATHER REVIEW, VOL. 97, JUNE 1969, PP.432-438. MICROFICHE COPY.

## SUBJECT RELATED DOCUMENTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G8-30-000-00287*	SPACE OCEANOGRAPHY - APPLICATIONS AND BENEFITS. E.E. LUDWICK, JR., GENERAL ELECTRIC CO., MISSISSIPPI TEST SUPPORT DEPT., BAY ST. LOUIS, MISS. PUBLISHED IN SPACE, TECHNOLOGY, AND SOCIETY - CANAVERAL COUNCIL OF TECHNICAL SOCIETIES, SPACE CONGRESS, 6TH, COCOA BEACH, FLA., MARCH 1969. VOL. 1, PP. 9-5-9-35. MICROFILME COPY.
NR-G8-30-000-00304*	COLLECTED REPRINTS-ESSA-INSTITUTE FOR OCEANOGRAPHY 1966. ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, ATLANTIC OCEANOGRAPHIC LABORATORIES, MIAMI, FLA., AND PACIFIC OCEANOGRAPHIC LABORATORIES, SEATTLE, WASHINGTON. 1969.
NR-G8-30-000-00305*	COLLECTED REPRINTS-ESSA-INSTITUTE FOR OCEANOGRAPHY 1967. ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, ATLANTIC OCEANOGRAPHIC LABORATORIES, MIAMI, FLA., AND PACIFIC OCEANOGRAPHIC LABORATORIES, SEATTLE, WASHINGTON. 1969.
NR-G8-30-000-00306*	COLLECTED REPRINTS-ESSA-INSTITUTE FOR OCEANOGRAPHY 1968. ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, ATLANTIC OCEANOGRAPHIC LABORATORIES, MIAMI, FLA., AND PACIFIC OCEANOGRAPHIC LABORATORIES, SEATTLE, WASHINGTON. 1969.
NR-G8-GH-998-00312*	BIOLOGICAL OCEANOGRAPHY. NASA SP-211. GIFFORD C. EWING, WOOD HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MASS. PUBLISHED IN FUTURE FIELDS OF CONTROL APPLICATION, A SYMPOSIUM HELD AT MASS. INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS., FEB. 10-11, 1969. PP. 121-133. STAR N69-39967.
NR-G8-30-000-00319*	FORMATION AND STRUCTURE OF EQUATORIAL ANTICYCLONES CAUSED BY LARGE-SCALE CROSS-EQUATORIAL FLOWS DETERMINED BY ATS-1 PHOTOGRAPHS. TETSUO T. FUJITA, ET AL., UNIVERSITY OF CHICAGO, DEPT. OF GEOPHYSICAL SCIENCES, CHICAGO, ILL. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 8, AUGUST 1969. PP. 649-667.
NR-G8-30-000-00352*	SATELLITE EVIDENCE OF SEA-AIR INTERACTIONS DURING THE INDIAN MONSOON. K. RAGHAVAN, INSTITUTE OF TROPICAL METEOROLOGY, POONA, INDIA. PUBLISHED IN WEATHER REVIEW, VOL. 97, NO. 12, DEC. 1969. PP. 905-909.
NR-G8-30-000-00356*	FINAL ANALYSIS ON SOME POTENTIAL BENEFITS TO COMMERCIAL FISHING THROUGH INCREASED SEARCH EFFICIENCY. A CASE STUDY - THE TUNA INDUSTRY. VIRGIL J. NORTON, UNIVERSITY OF RHODE ISLAND, KINGSTON, RHODE ISLAND. JAN. 1969. STAR N69-40908.

## **OCEANOGRAPHY**

### **SECTION 09 TECHNICAL REPORTS**

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-30-000-00006*	DETERMINING SURFACE TEMPERATURE AND CLOUD TEMPERATURE FROM METEOROLOGICAL EARTH SATELLITES. K. YA. KONDRATYEV, ET AL., USSR, 1966. TRANSLATION OF GLOBNAYA GEOFIZICHESKAYA OBSERVATORIYA, LENINGRAD. TRUDY, N. 196, PP.3-23, 1966. MICROFICHE COPY.
NR-G9-30-000-00018	THE DIRECTIONAL SPECTRUM OF A WIND GENERATED SEA AS DETERMINED FROM DATA OBTAINED BY THE STEREO WAVE OBSERVATION PROJECT. WILLARD J. PIERSON, JR., ET AL. NEW YORK UNIVERSITY, COLLEGE OF ENGINEERING, METEOROLOGICAL PAPERS, VOL. 2, NO. 6. JUNE 1960, CONTRACT NO. NONR-265(03).
NR-G9-30-000-00019	THE EFFECTS OF EDDY VISCOSITY, CORIOLIS DEFLECTION, AND TEMPERATURE FLUCTUATION ON THE SEA BREEZE AS A FUNCTION OF TIME AND HEIGHT. WILLARD J. PIERSON, JR., NEW YORK UNIVERSITY, COLLEGE OF ENGINEERING, METEOROLOGICAL PAPERS, VOLUME 1, NUMBER 2. JANUARY 1950. CONTRACT NO. NONR-265(03).
NR-G9-30-000-00023	THEORETICAL AND OBSERVED RESULTS FOR THE ZERO AND ORDINATE CROSSING PROBLEMS OF STATIONARY GAUSSIAN NOISE WITH APPLICATION TO PRESSURE RECORDS OF OCEAN WAVES WILLARD J. PIERSON, JR., RAYMOND STEVENS, LEO J. TICK, SYLVAIN EHRENFELD, NATHANIEL R. GOODMAN, SYEMOUR KAPLAN, AND EMANUEL MEHR, NEW YORK UNIVERSITY, COLLEGE OF ENGINEERING, RESEARCH DIVISION, DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY AND ENGINEERING STATISTICS GROUP, DECEMBER 1958, CONTRACT NO. N0BS 72018 (1734F).
NR-G9-33-000-00024	THE APPARENT LOSS OF COHERENCY IN VECTOR GAUSSIAN PROCESSES DUE TO COMPUTATIONAL PROCEDURES WITH APPLICATION TO SHIP MOTIONS AND RANDOM SEAS, WILLARD J. PIERSON, JR., AND JOHN F. DALZELL, NEW YORK UNIVERSITY, COLLEGE OF ENGINEERING, RESEARCH DIVISION, DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY, SEPTEMBER 1960, CONTRACT NOS. NONR-265(17) AND NONR-263(09).
NR-G9-30-000-00025	MODELS OF RANDOM SEAS BASED ON THE LAGRANGIAN EQUATIONS OF MOTION. WILLARD J. PIERSON, JR., NEW YORK UNIVERSITY, COLLEGE OF ENGINEERING, RESEARCH DIVISION, DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY, AUGUST 1966, CONTRACT NO. NONR-265(03).
NR-G9-30-000-00026	ON THE PHASES OF THE MOTIONS OF SHIPS IN CONFUSED SEAS WILLARD J. PIERSON, JR., NEW YORK UNIVERSITY, COLLEGE OF ENGINEERING, RESEARCH DIVISION, DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY, TECHNICAL REPORT NO. 9, NOVEMBER 1957. CONTRACT NO. NONR-265(17).

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-4J-000-00027	THE ACCURACY OF PRESENT WAVE FORECASTING METHODS WITH REFERENCE TO PROBLEMS IN BEACH EROSION ON THE NEW JERSEY AND LONG ISLAND COASTS. WILLARD J. PIERSON, JR., COLLEGE OF ENGINEERING, NEW YORK UNIVERSITY, RESEARCH DIVISION, DEPARTMENT OF METEOROLCGY, NOVEMBER 1950. CONTRACT NO. NONR-285(03).
NR-G9-30-000-00028	THE AVERAGE HORIZONTAL WIND DRIVEN MASS TRANSPORT OF THE ATLANTIC FOR FEBRUARY AS OBTAINED BY NUMERICAL METHODS, D. M. GARNER, G. NEUMANN, AND W. J. PIERSON, JR., NEW YORK UNIVERSITY, COLLEGE OF ENGINEERING, RESEARCH DIVISION, DEPARTMENT OF METEOROLCGY AND OCEANOGRAPHY, DECEMBER 1962, CONTRACT NO. NONR-285(03).
NR-G9-30-000-00029	WAVE SPECTRA ESTIMATED FROM WAVE RECORDS OBTAINED BY THE OWS WEATHER EXPLORER AND OWS WEATHER REPORTER (I). L. MOSKOWITZ, W. J. PIERSON, AND E. MEHR, NEW YORK UNIVERSITY, COLLEGE OF ENGINEERING, RESEARCH DIVISION, DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY, NOVEMBER 1962, CONTRACT NO. N62306-1042. STAR N65-82026.
NR-G9-GH-128-00047	THE MISSISSIPPI RIVER AND THE GULF OF MEXICO. LCDR DON WALSH, USN, TEXAS A+M UNIVERSITY, DEPARTMENT OF OCEANOGRAPHY, COLLEGE STATION, TEXAS. JULY 8, 1967, PUBLISHED APRIL 1967. CONTRACT NUMBER NONR 2119(04).
NR-G9-GH-000-00050	REFLECTIONS OF THE SEA SURFACE TEMPERATURE FIELD IN LOW LEVEL CLOUD DEVELOPMENT; AN OBSERVATIONAL AIR-SEA INTERACTION STUDY FROM SPACE. JAMES E. ARNOLD, TEXAS A + M UNIVERSITY, DEPARTMENT OF OCEANOGRAPHY PRELIMINARY REPORT, APRIL 1967. CONTRACT NO. NONR-2119(04).
NR-G9-3D-000-00057*	SOME EXPERIENCE WITH A RADIATION THERMOMETER OVER THE AGULHAS CURRENT. T.F.W. HARRIS AND C.C. STAVROPOULOS, NATIONAL INSTITUTE FOR WATER RESEARCH, (CSIR), SOUTH AFRICA. PUBLISHED IN SOUTH AFRICAN JOURNAL OF SCIENCE, VOL. 63, NO. 4, APRIL 1967. PP.132-136.
NR-G9-3J-000-00058*	RADIOMETRIC AND SPECTROMETRIC ANALYSES OF BOTTOM SEDIMENTS ON BOARD SHIP. V.I. MCROZOV, YE. V. NEVESSKIY, ET AL., P.P. SHIRSHOV INSTITUTE OF OCEANOLOGY, USSR ACADEMY OF SCIENCES. PUBLISHED IN OCEANOLOGY OF THE ACADEMY OF SCIENCES OF THE USSR, VOL. 9, NO. 3, 1969. PP.426-430.
NR-G9-3J-000-00059*	SOME RESULTS OF THE USE OF THE DOPPLER EFFECT FOR REMOTE SENSING OF SEA WAVES. V.V. VINOGRADOV AND V.N. LAZARENKO, STATE OCEANOGRAPHIC INSTITUTE, LENINGRAD DIVISION, USSR. PUBLISHED IN OCEANOLOGY OF THE ACADEMY OF SCIENCES OF THE USSR, VOL. 9, NO. 3, 1969. PP.414-421.

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-30-000-00069	PROCESSING OF SATELLITE INFRARED DATA FOR SEA SURFACE TEMPERATURE DETERMINATION. JAMES R. GREAVES AND JAMES H. WILLAND. ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. JANUARY 1967. CONTRACT NO. NASW-1157. STAR N68-14108.
NR-G9-30-000-00071	SPACECRAFT OCEANOGRAPHY PROJECT. U.S. NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. PREPARED BY THE PHILCO CORPORATION, SPACE AND RE-ENTRY SYSTEMS DIVISION, PALO ALTO, CALIFORNIA. JULY 1967. CONTRACT NO. N62306-2141. FOUR REPORTS. SPOC-TN 1. OBSERVATIONS FROM SATELLITES' POTENTIAL IMPACT ON THE UNITED STATES FISHERY, BY J.A. CRUTCHFIELD. SPOC-TN 2. SOME CONSIDERATIONS AFFECTING SATELLITE DATA CONTRIBUTIONS TO FISHERIES, BY E.H. COUGHRAN AND R.H. SULLIVAN. SPOC-TN 3. SEA SURFACE EFFECTS AND CONSIDERATIONS RELATED TO REMOTE SENSING FROM ORBITING SATELLITES, BY A.C. DUXBURY. SPOC-TN 4. STATE OF THE ART: ALL-WEATHER SEA SURFACE SENSING BY R.H. VANHAAGEN.
NR-G9-30-000-00072	ON THE GROWTH OF THE SPECTRUM OF A WIND GENERATED SEA ACCORDING TO A MODIFIED MILES-PHILLIPS MECHANISM AND ITS APPLICATION TO WAVE FORECASTING. GEOPHYSICAL SCIENCES LABORATORY TR-67-5. TOKUJIRO INOJE, GEOPHYSICAL SCIENCES LABORATORY, SCHOOL OF ENGINEERING AND SCIENCE, NEW YORK UNIVERSITY. JULY 1967. CONTRACT NO. N62306-1589.
NR-G9-34-128-00074	GROUND TRUTH REQUIREMENTS FOR REMOTE SENSING OF OCEANOGRAPHIC FEATURES. JAMES E. ARNOLD, LUIS R.A. CAPURRO, JACK F. PARIS, AND DON WALSH. DEPARTMENT OF OCEANOGRAPHY, TEXAS A&M UNIVERSITY. NOVEMBER 22, 1967. CONTRACT NO. NONR 2119(04). STAR N68-19951.
NR-G9-3J-998-00091*	SPACE PHOTOGRAPHS OF THE EARTH IN THE STUDY OF GEOTECTONICS. ERWIN Y. KEDAR, NASA/MANNED SPACE FLIGHT CENTER, HOUSTON, TEXAS. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO, OCTOBER 1969. PAPER AAS 69-579. MICROFICHE COPY.
NR-G9-30-000-00096*	POTENTIAL USE OF EARTH SATELLITES FOR SOLVING PROBLEMS IN OCEANOGRAPHY AND HYDROLOGY. E. PAUL MC CLAIN, ESSA/ENVIRONMENTAL SCIENCE GROUP, WASHINGTON, D.C. AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO, OCTOBER 1969. PAPER AAS 69-596. MICROFICHE COPY.



## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-30-000-00097*	SYNOPTIC OCEANOGRAPHY - REMOTE SENSING STUDIES OF THE OCEAN. JOHN W. SHERMAN, III, U.S. NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. PUBLISHED IN AMERICAN ASTRONAUTICAL SOCIETY, JUNE 1969, DENVER, COLORADO.
NR-G9-GJ-000-00098*	TETHERED BALLOON FOR STUDY OF COASTAL DYNAMICS. COASTAL STUDIES INSTITUTE, TR-66. CHOULE J. SONU, LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA. JUNE 1969. CONTRACT NUMBER NONR-1575(03). REPRINTED FROM SYMPOSIUM ON EARTH OBSERVATIONS FROM BALLOONS, AMERICAN SOCIETY OF PHOTOGRAMMETRY, WASHINGTON, D.C. FEB. 1969. MICROFICHE COPY, STAR N70-12791.
NR-G9-GJ-000-00099*	WHERE MOST GRAINS OF VERY COARSE SAND AND FINE GRAVEL ARE DEPOSITED. COASTAL STUDIES INSTITUTE, TR-68. RICHARD J. RUSSELL, LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA. JULY 1968. CONTRACT NO. NONR-1575(03). REPRINTED FROM SEDIMENTOLOGY, VOL. 11, 1968. PP.31-38. MICROFICHE COPY. STAR N70-12791.
NR-G9-30-000-00105*	INFRARED CHARACTERISTICS OF OCEAN WATER (1.5-15 MICROMETER) REPORT NO. NRL-6736. C. FRIEDMAN, NAVAL RESEARCH LAB., WASHINGTON, D.C. PUBLISHED IN APPLIED OPTICS, VOL. 8, NO. 10, OCT. 1969. PP.2073-2078.
NR-G9-4J-138-00106*	OCEAN CURRENT AND SEA SURFACE TEMPERATURE OBSERVATIONS FROM METEOROLOGICAL SATELLITES. NASA TN-D-5142. GUENTER WARNECKE, LARRY M. McMILLIN, AND LEWIS J. ALLISON, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. NOVEMBER 1969. STAR N70-16237.
NR-G9-30-000-00114*	DIRECTIONAL RADIANCE (LUMINANCE) OF THE SEA SURFACE. REPORT NO. SIO-REF-69-20. JACQUELINE I. GORDON, SCRIPPS INSTITUTION OF OCEANOGRAPHY, SAN DIEGO, CALIFORNIA. OCTOBER 1969. CONTRACT NO. N00024-68-C-1100. STAR N70-19697.
NR-G9-3L-093-00128	PRELIMINARY MISSION ANALYSIS REPORT NASA/MSC MISSION NO. 47, SITE 93, PT. BARROW, ALASKA. TECHNICAL MEMORANDUM 118-4. JOHN W. ROUSE, JR., UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. OCTOBER 1967. CONTRACT NUMBER NAS 9-7175. STAR X69-16562
NR-G9-30-000-00164*	A WAVE METHOD FOR DETERMINING DEPTHS OVER BOTTOM DISCONTINUITIES. TECHNICAL MEMORANDUM NO. 5. MARTIN A. MASON AND G.H. KEULEGAN, ARMY CORPS OF ENGINEERS, WASHINGTON, D.C. MAY 1944. MICROFICHE COPY.

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-J0-000-00166*	SOME BIOLOGICAL OBSERVATIONS ON THE WHITE WHALE FROM THE AIRCRAFT. V.M. BELKOVICH, USSR. TRANSLATED FROM ZOOLOGICHESKIY ZHURNAL, VOL. 39, NO. 9, MOSCOW, 1960. PP.1414-1422. MICROFICHE COPY, STAR N70-12151.
NR-G9-J0-000-00168*	AN OCEAN-ATMOSPHERE INTERACTION EXPERIMENT FOR THE ARCTIC. A.F. TRESHNIKOV, ET AL., USSR. TRANSLATED FROM PROBLEMY ARKTIKI I ANTARKTIKI (SSSR), NO. 28, 1968. MICROFICHE COPY.
NR-G9-J0-000-00179	ON THE QUESTION OF LOW-LEVEL CLOUD RESPONSE TO THE TEMPERATURE FIELD OF THE SEA SURFACE. JAMES E. ARNOLD, TEXAS A+M UNIVERSITY, DEPARTMENT OF OCEANOGRAPHY, COLLEGE STATION, TEXAS. SEPTEMBER 1968. CONTRACT NUMBER NONR 2119(04).
NR-G9-GJ-000-00189*	TIDAL INLETS AND WASHOVER FANS, J.W. PIERCE, DIVISION OF SEDIMENTOLOGY, SMITHSONIAN INSTITUTION, WASHINGTON, D.C. PUBLISHED IN JOURNAL OF GEOLOGY, VOL. 78, NO. 2, MARCH 1970. PP.230-234.
NR-G9-GK-000-00192*	USE OF NIMBUS II APT TO DETERMINE THE RATE OF ICE DISINTEGRATION AND DISPERSION IN HUDSON BAY. NASA CR-106478. REPORT NO. 9645-31. CLINTON J. BOWLEY, ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. MARCH 1969. CONTRACT NUMBER NAS5-10343. STAR N69-41162
NR-G9-J0-000-00195*	THE PHOTOGRAPHY FROM SPACE OF OCEANOGRAPHIC FEATURES. ROBERT E. STEVENSON, ET AL., BUREAU OF COMMERCIAL FISHERIES, GALVESTON, TEXAS. PUBLISHED IN MARINE SCIENCES INSTRUMENTATION, VOL. 4, 1968. PP.314-318. PRESENTED AT THE NATIONAL INSTRUMENT SOCIETY OF AMERICA, COCOA BEACH, FLA. JAN. 1968. PROCEEDINGS.
NR-G9-JJ-998-00196*	STUDY OF THE REMOTE MEASUREMENT OF OCEAN COLOR. FINAL RPT. NASA CR-100294. RICHARD C. RAMSEY, TRW SYSTEMS GROUP, REDONDO BEACH, CALIFORNIA. JAN. 1968. CONTRACT NUMBER NASW-1658. STAR N69-19618
NR-G9-4J-998-00199*	SOME ASPECTS OF REMOTE SENSING AS APPLIED TO THE OCEAN. V.E. NOBLE, R.D. KETCHUM, ET AL., U.S. NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. PUBLISHED IN IEEE PROCEEDINGS, VOL. 57, NO. 4, APRIL 1969. PP.594-604.
NR-G9-J0-000-00205*	A NOTE ON MULTIPLE IMAGE PHOTO-MOSAICS FOR THE SOUTHERN HEMISPHERE. N.A. STRETEN, ALASKA, UNIVERSITY, GEOPHYSICAL INSTITUTE, COLLEGE, ALASKA. PUBLISHED IN AUSTRALIAN METEOROLOGICAL MAGAZINE, VOL. 16, DEC. 1968. PP.127-136. MICROFICHE COPY.

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-G9-GH-000-00206*	PROOF TEST OF WATER TRANSPARENCY METHOD OF DEPTH DETERMINATION, REPORT NO. TM-9, ENGINEERING NOTES-29, J.V. HALL, JR., U.S. ARMY CORPS OF ENGINEERS, WASHINGTON, D.C. JULY 1948. MICROFICHE COPY.
VR-G9-JO-000-00207*	MEASUREMENT OF OCEAN WAVES IN A SATELLITE PHOTOGRAPH. L.M. LIBBY, ET AL., UNIVERSITY OF COLORADO, BOULDER, COLO., OCT. 1969. MICROFICHE COPY. STAR N70-18317.
VR-G9-KJ-000-00213*	FLUORESCENCE EXCITATION AND EMISSION SPECTRA OF DISSOLVED ORGANIC MATTER IN SEA WATER. EUGENE D. TRAGANZA, U.S. NAVAL ACADEMY, ANNAPOLIS, MARYLAND. PUBLISHED IN BULLETIN OF MARINE SCIENCE, VOL. 19, NO. 4, DEC. 1969. PP.897-904.
VR-G9-KJ-138-00214*	PHYSICAL OCEANOGRAPHY FEASIBILITY STUDY UTILIZING NIMBUS II HRIR SATELLITE DATA. FINAL REPORT. FRED M. VUKOVICH, RESEARCH TRIANGLE INSTITUTE, DURHAM, N.C. AND JACKSON O. BLANTON, DUKE UNIVERSITY, DURHAM, N.C. JULY 1969. STAR N70-13239.
VR-G9-JO-000-00224	RADAR ALTIMETRY FROM A SPACECRAFT AND ITS POTENTIAL APPLICATIONS TO GEODESY AND OCEANOGRAPHY. GEOPHYSICAL SCIENCES LABORATORY TR-67-3. J. ARTHUR GREENWOOD, ET. AL., NEW YORK UNIVERSITY, SCHOOL OF ENGINEERING AND SCIENCE, DEPARTMENT OF METEOROLCGY AND OCEANOGRAPHY, NEW YORK CITY, NEW YORK. MAY 1967. CONTRACT NUMBER N62306-1589.
VR-G9-JO-000-00229	INVESTIGATION OF VISIBLE REGION INSTRUMENTATION FOR OCEANOGRAPHIC SATELLITES, VOL. 1. RE-31. A.C. CONROD, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, EXPERIMENTAL ASTRONOMY LABORATORY, CAMBRIDGE, MASS. JULY 1967. CONTRACT NUMBER N62306-2082.
VR-G9-GH-162-00230	AERIAL PHOTOGRAPHY FOR SHALLOW WATER STUDIES ON THE WEST EDGE OF THE BAHAMA BANKS. RE-42. A. CONROD, M. KELLY AND A. BOERSMA, EXPERIMENTAL ASTRONOMY LABORATORY, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS. NOVEMBER 1968. CONTRACT NUMBER N62306-2082.
VR-G9-JO-000-00238	ARCTIC ICE TYPE IDENTIFICATION BY RADAR. CRES TECHNICAL REPORT 121-1. JOHN W. ROUSE, JR., UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. AUGUST 1968. CONTRACT NUMBER ONR-394. STAR N69-37021.

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ACCESSION NUMBER	DESCRIPTION
NR-G9-30-000-00239	REMOTE SENSING TECHNIQUES FOR THE LOCATION AND MEASUREMENT OF SHALLOW-WATER FEATURES. F.C. POLYCN AND R.A. ROLLIN, UNIVERSITY OF MICHIGAN, INSTITUTE OF SCIENCE AND TECHNOLOGY, WILLOW RUN LABORATORIES, ANN ARBOR, MICHIGAN, JANUARY 1969, PREPARED FOR THE SPACECRAFT OCEANOGRAPHY PROJECT, U.S. NAVAL OCEANOGRAPHIC OFFICE, UNDER CONTRACT N62306-67-C-0243.
NR-G9-30-000-00241	THE THEORY OF RADAR SCATTER FROM THE OCEAN. CRES TECHNICAL REPORT 112-1. RICHARD C. CHIA, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, OCTOBER 1968, CONTRACT NUMBERS NSF GK 1153 AND N62306-67-C-0044.
NR-G9-30-000-00253	MICROWAVE RADIOMETRY AND ITS APPLICATIONS TO MARINE METEOROLOGY AND OCEANOGRAPHY. JACK F. PARIS, TEXAS A&M UNIVERSITY, DEPARTMENT OF OCEANOGRAPHY, COLLEGE STATION, TEXAS, JANUARY 1969. CONTRACT NUMBER NOVR 2119(04).
NR-G9-30-000-00259	A STUDY OF CLOUD PATTERNS OBSERVED FROM ESSA 3 SATELLITE PHOTOGRAPHS, AND THEIR RELATIONSHIP TO SEA SURFACE TEMPERATURES IN THE EASTERN GULF OF MEXICO. REPORT NO. IR 68-118. WILLIAM T. MORTON, U.S. NAVY, NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. OCTOBER 1968, CONTRACT NO. ZR-011-01 6:11.01N 691-XE(2).
NR-G9-30-000-00288	SPACECRAFT RADAR AS A MEANS FOR STUDYING THE ANTARCTIC. CRES REPORT 61-4. D.S. SIMONETT AND D.A. BROWN, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003, A PAPER PRESENTED TO V11 CONGRESS INTERNATIONAL QUATERNARY ASSOCIATION, BOULDER, COLORADO, SEPTEMBER 1965, STAR X66-35972.
NR-G9-30-000-00289	REMOTE SENSING FROM SPACECRAFT AS A TOOL FOR INVESTIGATING ARCTIC ENVIRONMENTS. CRES REPORT 61-5. D.S. SIMONETT AND S.A. MORAIN, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003, A PAPER PRESENTED TO V11 CONGRESS INTERNATIONAL QUATERNARY ASSOCIATION, BOULDER, COLORADO, SEPTEMBER 1965, STAR X66-35946.
NR-G9-30-000-00308	AN INDEX OF OCEAN FEATURES PHOTOGRAPHED FROM GEMINI SPACECRAFT. ROBERT E. STEVENSON AND RUTH M. NELSON, BUREAU OF COMMERCIAL FISHERIES, CONTRIBUTION NO. 253, GALVESTON, TEXAS, JANUARY 1968. CONTRACT NO. N 62306-67-D-0123.

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ACCESSION NUMBER	DESCRIPTION
VR-G9-00-000-00321	MEASURING SEA STATE AND ESTIMATING SURFACE WINDS FROM A POLAR ORBITING SATELLITE. R.K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, AND W.J. PIERSON, NEW YORK UNIVERSITY, DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY, NEW YORK CITY, NEW YORK. CONTRACT NUMBERS N62306-1589, NSR-17-004-003, NSG-298 AND NSF GP-2259. PUBLISHED IN INTERNATIONAL SYMPOSIUM ON ELECTROMAGNETIC SENSING OF THE EARTH FROM SATELLITES MIAMI BEACH, FLORIDA, NOVEMBER 22-24, 1965.
VR-G9-00-000-00333	FROM SPACE- NEW TOOL FOR STUDYING OCEAN WEATHER. ROBERT E. STEVENSON, BUREAU OF COMMERCIAL FISHERIES, BIOLOGICAL LABORATORY, GALVESTON, TEXAS. PUBLISHED IN OCEAN INDUSTRY, V.4, NO.3, MARCH 1969, P 51-55.
VR-G9-00-000-00393	OCEAN-BOTTOM SEISMOGRAPH. R.A. ARNETT AND T.W. NEWHOUSE, TEXAS INSTRUMENTS INC., DALLAS, TEXAS. PUBLISHED IN PROCEEDINGS OF THE IEEE, V.53, NO.12, DECEMBER 1965, P.1899-1905.
VR-G9-00-000-00401	A RADIOISOTOPE TECHNIQUE FOR TRACING AIR MOVEMENTS IN CLEAR AIR AND IN CLOUDS. R.A. FOKES AND J.S. WATT, ISOTOPES DIV. AUSTRALIAN ATOMIC ENERGY COMMISSION. J.A. HARBURTON, RADIO-PHYSICS DIV., C.S.I.R.C. SYDNEY. PUBLISHED IN NATURE, VOL. 196, OCTOBER 1962. PP.328-329.
VR-G9-00-000-00428	THE TRANSPORT OF TRACE SUBSTANCES IN THE ATMOSPHERE AND THEIR IMPLICATIONS FOR THE GENERAL CIRCULATION OF THE STRATOSPHERE. REGINALD E. NEWELL, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS. CONTRACT NUMBERS AT(30-1) 2241 AND AF 19(604) 5223. REPRINT FROM GEOFISICA PURA E APPLICATA 49, PP.137-158, (1961/IT).
VR-G9-00-000-00431	AN EVALUATION OF SEA SURFACE TEMPERATURE AS MEASURED BY THE NIMBUS I HIGH RESOLUTION INFRARED RADIOMETER. TN D-4078. LEWIS J. ALLISON AND JAMES S. KENNEDY, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. NOVEMBER 1967, STAR N68-10222.
VR-G9-00-000-00437	DEVELOPMENT OF UNDERWATER RESEARCH. B.P. MANTEYFEL, MOSCOW, 1965, TECHNICAL TRANSLATION 67-31170, JOINT PUBLICATIONS RESEARCH SERVICE, 40,526, APRIL 5, 1967, STAR N67-83715.
VR-G9-00-000-00439	RADIATION AND ASSOCIATED OBSERVATIONS MADE ON INDIAN OCEAN CRUISES. I. CRUISES DURING 1962. TECHNICAL PAPER NO. 16, E.L. DEACON AND J. STEVENSON, COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, MELBOURNE, AUSTRALIA, 1968. STAR N68-34257

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NR-G9-4J-998-00444*	AIRBORNE OCEANOGRAPHY, JOHN WILKERSON, U.S. NAVAL OCEANOGRAPHIC OFFICE, PUBLISHED IN GEO-MARINE TECHNOLOGY, VOL. 2, NO. 8, SEPT. 1966. PP.9-15.
NR-G9-30-000-00447*	ATTENUATED TOTAL REFLECTANCE INFRARED ANALYSIS OF AQUEOUS SOLUTIONS. BERNARD KATLAFFSKY AND ROBERT E. KELLER, RESEARCH DEPT., ORGANIC CHEMICALS DIV., MONSANTO CHEMICAL CO. ST. LOUIS, MISSOURI. PUBLISHED IN ANALYTICAL CHEMISTRY, VOL. 35 NO. 11, OCT. 1963. PP.1665-1670.
NR-G9-3H-162-00448*	OCEANOGRAPHY FROM SPACE, L.R.A. CAPURRO, TEXAS A+M UNIV., DEPT. OF OCEANOGRAPHY, COLLEGE STATION, TEXAS, REPRINT FROM BOLLETTINO DI GEOFISICA TEORICA ED APPLICATA, VOL. IX, NO. 33, MARCH 1967. PP.5-16.
NR-G9-3L-093-00454	ARCTIC ICE TYPE IDENTIFICATION BY RADAR, J.W. ROUSE, JR., TEXAS A + M UNIVERSITY, COLLEGE STATION, TEXAS. REPRINTED FROM PROCEEDINGS OF THE IEEE, VOL. 57, NO. 4, APRIL, 1969 P.605-611
NR-G9-4J-138-00458	OBSERVATIONS OF SEA SURFACE TEMPERATURE AND OCEAN CURRENTS FROM NIMBUS II. GUENTER WARNECKS, LEWIS J. ALLISON, AND LONNIE L. FOSHEE, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. AUGUST 1967. STAR N68-34261.
NR-G9-30-000-00459	A SURVEY OF THE EXPERIMENTAL VALUES OF THE ABSORPTION COEFFICIENT OF WATER IN THE INFRARED. REPORT NO. F-67-4. H. ZEMEL, NEW YORK UNIVERSITY, COLLEGE OF ENGINEERING, RESEARCH DIVISION, DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY, APRIL 1967. RESEARCH GRANT NGR-33-016-067. STAR X67-36976.
NR-G9-30-000-00467	APPLICATIONS OF REMOTE SENSING TO EXPLORATION FOR OFFSHORE GOLD. CASE 630. W.L. SMITH, BELLCOMM, INC., WASHINGTON, D.C. SEPTEMBER 1969.
NR-G9-3H-998-00478	EXPERIMENTS IN OCEANOGRAPHIC AEROSPACE PHOTOGRAPHY. I BEN FRANKLIN SPECTRAL FILTER TESTS, REPORT NO. TR-DA2108. D.S. ROSS, SPACE AND RE-ENTRY SYSTEMS DIVISION, PHILCO-FORD CORP., PALO ALTO, CALIFORNIA. 29 AUGUST 1969. CONTRACT NO. N62306-69-C-0072.
NR-G9-EN-099-00480	MICROWAVE DETECTION OF PRECIPITATION OVER THE SURFACE OF THE OCEAN. S.F. SINGER AND G.F. WILLIAMS, JR., INSTITUTE OF ATMOSPHERIC SCIENCE, UNIVERSITY OF MIAMI, CORAL GABLES, FLA. REPRINT FROM JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 73, NO. 10, MAY 15, 1968. PP.3325-3327.

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ACCESSION NUMBER	DESCRIPTION
NR-G9-JO-000-00481	AERIAL MEASUREMENT OF RADIATION TEMPERATURES OVER MT. FUJI AND TOKYO AREAS AND THEIR APPLICATION TO THE DETERMINATION OF GROUND AND WATER-SURFACE TEMPERATURES. SATELLITE AND MESOMETEOROLOGY RESEARCH PROJECT, PAPER NO. 72. TETSUYA FUJITA, DEPARTMENT OF THE GEOPHYSICAL SCIENCES, THE UNIVERSITY OF CHICAGO, AND KIYOSHI TSUCHIYA, JAPAN METEOROLOGICAL AGENCY. MARCH 1968. CONTRACT NUMBERS C WBG-34, NSG 333 AND NSF GF-225. STAR 468-34246.
NR-G9-JO-000-00491	SEA SURFACE TEMPERATURE MEASUREMENTS FROM SATELLITES. P. KRISHNA RAO, ENVIRONMENTAL SCIENCE SERVICE ADMINISTRATION, WASHINGTON, D.C. REPRINTED FROM MARINERS WEATHER LOG, VOL. 12, NO. 5, SEPT. 1968. PP.152-154.
NR-G9-GH-162-00492	PHOTOGRAPHIC AND SPECTRAL FACTORS AFFECTING DEPTH ANALYSIS BY COLOR VARIATION. DONALD S. ROSS, PHILCO-FORD CORP., SPACE AND RE-ENTRY SYSTEMS DIV., PALO ALTO, CALIF., JANUARY 1968. PRESENTED AT THE NINTH MEETING, AD HOC SPACECRAFT OCEANOGRAPHY ADVISORY GROUP. TEXAS A + M UNIVERSITY, COLLEGE STATION, TEXAS.
NR-G9-JO-000-00495	OCEANOGRAPHIC APPLICATIONS OF RADAR ALTIMETRY FROM A SPACECRAFT. A. NATHAN, G. NEUMANN, W.J. PIERSON, ET AL., NEW YORK UNIVERSITY, DEPT. OF METEOROLOGY AND OCEANOGRAPHY, BRONX, N.Y. CONTRACT NO. N62306-1589. REPRINT FROM REMOTE SENSING OF ENVIRONMENT 1, 1969, PP.71-80.
NR-G9-JJ-998-00497	SPECTRORADIOMETRIC CHARACTERISTICS OF NATURAL LIGHT UNDER WATER. RAYMOND C. SMITH AND JOHN E. TYLER, SCRIPPS INSTITUTION OF OCEANOGRAPHY, UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA. REPRINTED FROM JOURNAL OF OPTICAL SOCIETY, VOL. 57, NO. 5, MAY 1967. PP.595-601.
NR-G9-JO-000-00498	LIGHT IN THE SEA. SEIBERT G. DUNTLY, SCRIPPS INSTITUTION OF OCEANOGRAPHY, UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIF. REPRINTED FROM JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 53, NO. 2, FEB. 1963. PP.214-233.
NR-G9-JJ-012-00499	IN SITU SPECTROSCOPY IN OCEAN AND LAKE WATERS. JOHN E. TYLER, SCRIPPS INSTITUTION OF OCEANOGRAPHY, SAN DIEGO, CALIFORNIA. REPRINTED FROM JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 53, NO. 7, JULY 1965. PP.800-805.
NR-G9-JO-000-00500	SUBMERSIBLE SPECTRORADIOMETER. JOHN E. TYLER AND RAYMOND C. SMITH, SCRIPPS INSTITUTION OF OCEANOGRAPHY, UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA. REPRINTED FROM JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 56, NO. 10, OCT. 1966. PP.1390-1396.

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-30-000-00501	THE SIGNAL/NOISE RATIO CONCEPT IN UNDERWATER OPTICS, R.J. MARQUEDANT AND H. HODARA, TETRA TECH, INC., PASADENA, CALIF. REPRINTED FROM APPLIED OPTICS, VOL. 7, NO. 3, MARCH 1968. PP.527-534.
NR-G9-3H-998-00504	APPLICATIONS OF REMOTE PHOTOGRAPHY TO THE STUDY OF COASTAL ECOLOGY IN BISCAYNE BAY, FLORIDA. MAHLON G. KELLY, NEW YORK UNIVERSITY, DEPT. OF BIOLOGY, BRONX, N.Y. JULY 1969. CONTRACT NUMBER N-62306-69-C-0032.
NR-G9-30-000-00505	MICROWAVE RADIOMETRY OF THE OCEAN AND THE POSSIBILITY OF MARINE WIND VELOCITY DETERMINATION FROM SATELLITE OBSERVATIONS. G.F. WILLIAMS, JR., UNIVERSITY OF MIAMI, CORAL GABLES, FLORIDA. CONTRACT NO. N62303-69-C-0301. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 74, NO. 18, AUG. 20, 1969. PP.4591-4594.
NR-G9-30-000-00506	REMOTE-SENSOR APPLICATIONS IN FISHERY RESEARCH. PAUL M. MAUGHAN, BUREAU OF COMMERCIAL FISHERIES, WASHINGTON, D.C. REPRINTED FROM MARINE TECHNOLOGY SOCIETY JOURNAL. VOL. 3, NO. 2, MARCH, 1969. PP.11-20.
NR-G9-30-000-00507	IN SITU DETECTION AND ESTIMATION OF CHLOROPHYLL AND OTHER PIGMENTS IN THE OCEAN. JOHN E. TYLER, UNIVERSITY OF CALIF. SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA. REPRINTED FROM THE PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, VOL. 47, NO. 11, PP.1726-1733. NOVEMBER 1961.
NR-G9-30-000-00508	IN SITU DETECTION AND ESTIMATION OF CHLOROPHYLL AND OTHER PIGMENTS-PRELIMINARY RESULTS. JOHN E. TYLER, UNIVERSITY OF CALIFORNIA, SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA. REPRINTED FROM THE PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, VOL. 51, NO. 4, PP.671-678. APRIL 1964.
NR-G9-30-000-00509	WAVE STATISTICS FROM HURRICANE DORA. J. IAN COLLINS, TETRA TECH, INC., PASADENA, CALIFORNIA. PUBLISHED IN JOURNAL OF THE WATERWAYS AND HARBORS DIVISION, ASCE, VOL. 93, MAY 1967. PP.59-77.
NR-G9-30-000-00513	DETERMINATION OF THE LEVEL OF MEASUREMENT ON SEA SURFACE BY RADAR ALTIMETER. CRES TECHNICAL MEMORANDUM 112-6. HAN L. LEE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MARCH 1969. CONTRACT NUMBER N62303-69-C-0044.



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NR-G9-EJ-027-00518	OCEANOGRAPHIC INTERPRETATION OF TWO GEMINI V PHOTOGRAPHS. REPORT NO. IM-66-14. T.P. BARNETT, U.S. NAVY, OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. AUGUST 1966. STAR X67-10912.
NR-G9-GH-155-00522	SPECTRAL DISSIPATION OF FINITE-DEPTH GRAVITY WAVES DUE TO TURBULENT BOTTOM FRICTION. J.I. COLLINS, ET. AL., TETRA TECH, INC., PASADENA, CALIFORNIA. REPRINTED FROM SEARS FOUNDATION - JOURNAL OF MARINE RESEARCH, VOL. 26, NO. 1, JAN. 1968. PP.1-12.
NR-G9-00-000-00523	COLORSONDE FOR AERIAL DETERMINATION OF SHALLOW WATER DEPTH. REPORT NO. NRL 6561. ROBERT E. RUSKIN, U.S. NAVAL RESEARCH LABORATORY, WASHINGTON, D.C. JUNE 1967. STAR X67-21793.
NR-G9-00-000-00525	OCEAN WAVE PROFILING RADAR SYSTEM. REPORT NO. NRL 6052. C.M. MORROW, U.S. NAVAL RESEARCH LAB., WASHINGTON, D.C. APRIL 1964. STAR N68-83528.
NR-G9-4J-138-00526	MEASUREMENT OF OCEAN CURRENTS BY PHOTOGRAMMETRIC METHODS. TECHNICAL MEMORANDUM C+GSTM-5. EVERETT M. RAMEY, ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, WASHINGTON, D.C. MAY 1968. STAR N69-12298.
NR-G9-00-000-00536*	A SYSTEM FOR AIRBORNE MEASUREMENTS OF THE TOTAL HEAT FLOW FROM THE SEA SURFACE. E.D. MCALISTER, UNIVERSITY OF CALIF., SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA. JUNE 1967. CONTRACT NUMBER NONR 2216(13). MICROFICHE COPY. STAR N67-35894.
NR-G9-00-000-00545	THE POTENTIAL OF OBSERVATION OF THE OCEANS FROM SPACECRAFT. REPORT NO. 177726. GENERAL ELECTRIC CO., PHILADELPHIA, PA. DECEMBER 1967. STAR N68-31894.
NR-G9-00-000-00546	A SATELLITE VIEW OF TYPHOON MARIE 1966 DEVELOPMENT. NASA TN D-4757. G. WARNECKE, ET. AL., NASA/GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. NOVEMBER 1968. STAR N68-37869.
NR-G9-00-000-00551*	AERIAL SURVEY OF HUDSON BAY SURFACE TEMPERATURE. REPORT NO. R-28. WAYNE M. WENDLAND, UNIVERSITY OF WISCONSIN, DEPT. OF METEOROLOGY, MADISON, WISCONSIN. JULY 1966. CONTRACT NO. NONR-1202(07). MICROFICHE COPY. STAR N67-15350.
NR-G9-4J-086-00557*	SURVEY OF SEA SURFACE TEMPERATURE FLUCTUATIONS WITH THE AIRBORNE INFRARED THERMOMETER. ROBERT M. ALEXANDER, WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MASS. JULY 1965. CONTRACT NO. NONR-3351(00). MICROFICHE COPY.

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-30-000-00569*	APPLICATION OF AEROMETHOUS FOR INVESTIGATION OF THE OCEAN. V.G. ZDANOVICH, ET AL., U.S. AIR FORCE, AIR FORCE SYSTEMS COMMAND, WRIGHT-PATTERSON AIR FORCE BASE, OHIO, APRIL 1967. STAR N68-14347. MICROFICHE COPY.
NR-G9-5H-000-00572*	SOME APPLICATIONS OF SPACE OBSERVATIONS TO METEOROLOGY, OCEANOGRAPHY AND HYDROLOGY. VINCENT J. OLIVER, ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, WASHINGTON, D.C. PRESENTED AT THE FOURTH ANNUAL MEETING AND TECHNICAL DISPLAY OF THE AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS, OCT. 23-27, 1967. ANAHEIM, CALIFORNIA. STAR N68-14690.
NR-G9-EJ-998-00573	SPECTRAL STUDIES OF REFLECTED SOLAR ENERGY FIELDS, RED TIDE, KELP 0.68 TO 2.4 MICRONS C-47 AIRCRAFT. REPORT NUMBER X-622-68-451. W.A. HOVIS, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. NOVEMBER 1968. STAR N69-18104.
NR-G9-30-000-00577*	REMOTE SENSING IN OCEANOGRAPHY. BOYD E. OLSON, U.S. NAVY DEPT., NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. MARCH 1968. STAR N68-30759. MICROFICHE COPY.
NR-G9-4J-998-00578*	THE APPLICATION OF RADAR SCATTEROMETRY TO OCEAN PHYSICS. WILLIAM L. FLOYD, RYAN AERONAUTICAL CO., HOUSTON, TEXAS. PRESENTED AT THE AMERICAN ASTRONAUTICAL SOCIETY, ANNUAL MEETING, 14TH. BEDFORD, MASS., MAY 13-15, 1968. MICROFICHE COPY.
NR-G9-30-000-00589*	OBSERVATION OF SEA SURFACE TEMPERATURE PATTERNS AND THEIR SYNOPTIC CHANGES THROUGH OPTIMAL PROCESSING OF NIMBUS II DATA. REPORT NO. 9651-5. FINAL REPORT, JAMES R. GREAVES, JAMES H. WILLAND, AND DAVID T. CHANG, ALLIED RESEARCH ASSOC., CONCORD, MASS. SEPTEMBER 1968. CONTRACT NO. NASW-1651. STAR N68-36931.
NR-G9-JH-998-00598*	DATA COLLECTION BY THE USE OF THE NASA NP3A AIRCRAFT DURING BOMEX AND PRELIMINARY RESULTS OF ANALYSIS. VICTOR S. WHITEHEAD, THOMAS L. BARNETT, AND IVAN D. BROWNE, NASA/MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. PRESENTED AT THE SYMPOSIUM ON THE EARLY RESULTS FROM BOMEX, SEATTLE, WASHINGTON, NOVEMBER 20-21, 1969.
NR-G9-FH-998-00613*	FOTOINTERPRETAZIONE DELLE STRUTTURE OCEANOGRAFICHE QUALI APPAIONO NELLE FOTOGRAFIE RIPRESE DURANTE I VOLI GEMINI. ROBERT E. STEVENSON, BUREAU OF COMMERCIAL FISHERIES, GALVESTON, TEXAS. 1969. ESTRATTI ENCICLOPEDIA DELLA SCIENZA E DELLA TECNICA MONDADORI, S AND T/69 ANNUARIO DELLA EST, PP.185-188.

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ACCESSION NUMBER	DESCRIPTION
NR-G9-GJ-000-00621*	AIRCRAFT RECONNAISSANCE OF WINTER COASTAL CYCLONES IN THE NORTHEASTERN UNITED STATES. JEROME SPAR, NEW YORK UNIV., AND HOWARD A. FRIEDMAN, RESEARCH FLIGHT FACILITY, ESSA, MIAMI, FLORIDA. PUBLISHED IN BULLETIN AMERICAN METEOROLOGICAL SOCIETY: VOL. 50, NO. 11, NOV. 1969, PP.857-865.
NR-G9-GH-162-00622*	APPLICATIONS OF UNDERWATER PHOTOGRAMMETRY. INFORMAL REPORT NO. 68-52. JOSEPH POLLIO, U.S. NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. JUNE 1968.
NR-G9-JO-000-00627	OPTICAL RADAR MEASUREMENTS OF THE ATMOSPHERE. NASA CR-729. J.D. LAWRENCE, JR., F.R. CROWNFIELD, JR., ET AL., COLLEGE OF WILLIAM AND MARY, WILLIAMSBURG, VIRGINIA. APRIL 1967. CONTRACT NO. NSG 710. STAR N67-21982.
NR-G9-JO-000-00633*	SATELLITE APPLICATIONS TO MARINE GEODESY. NASA CR-1253. A.G. MOURAD, N.A. FRAZIER, ET AL., BATTELLE MEMORIAL INSTITUTE, COLUMBUS, OHIO. JAN. 1969. CONTRACT NO. NASR-100(11) STAR N69-16645.
NR-G9-JO-000-00637*	PERFORMANCE ANALYSIS OF A SALINITY/TEMPERATURE/DEPTH SYSTEM. ROY D. GAUL, TEXAS A AND M UNIVERSITY, DEPT. OF OCEANOGRAPHY, COLLEGE STATION, TEXAS. REPRINTED FROM IEEE TRANSACTIONS ON GEOSCIENCE ELECTRONICS, VOL. GE-6, NO. 4, NOV. 1968, PP.185-187.
NR-G9-JO-000-00653*	MEASUREMENT OF OCEAN CURRENTS BY PHOTOGRAMMETRIC METHODS. TECHNICAL MEMORANDUM C-GSTM-5. EVERETT H. RAMEY, ESSA COAST AND GEODETIC SURVEY, ROCKVILLE, MD. MAY 1968.
NR-G9-JO-000-00660*	ON THE MEASUREMENT OF LOW LEVEL HURRICANE WINDS BY AIRBORNE DUAL BEAM RADAR. REPORT NO. AFRL-69-C169. KENNETH M. GLOVER, AIR FORCE CAMBRIDGE RESEARCH LAB., BEDFORD, MASS. APRIL 1969. MICROFICHE COPY. STAR N69-34297.
NR-G9-JO-000-00672*	SPECTRA OF INTERNAL WAVES AND TURBULENCE IN STRATIFIED FLUIDS. PART I. GENERAL DISCUSSION AND INDICATIONS FROM MEASUREMENTS IN STABLY STRATIFIED ATMOSPHERE AND OCEAN. YIH-HO PAO, BOEING SCIENTIFIC RESEARCH LAB., SEATTLE, WASH. JUNE 1969. STAR N69-35845.
NR-G9-JO-000-00674*	ANALYSIS OF MEASUREMENTS OF MICROWAVE EMISSION FROM THE EARTH'S SURFACE AND ATMOSPHERE. REPORT NO. JAC 60693. H.A. HYATT, DOUGLAS AIRCRAFT CO., INC., MISSILE AND SPACE SYSTEMS DIV., HUNTINGTON BEACH, CALIFORNIA. JUNE 1967. CONTRACT NUMBER E-43-67(N). STAR N68-16140.

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-G9-30-000-00692*	DECODING AND SYNOPTIC INTERPRETATION OF INFRARED (IR) CLOUD COVER PHOTOGRAPHS. E.P. DOMBKOVSKAYA, USSR, ISSUED BY MAIN ADMINISTRATION OF THE HYDROMETEOROLOGICAL SERVICE, COUNCIL OF MINISTERS, USSR. PUBLISHED IN GIDROMETEOROLOGICHESKII NAUCHNO-ISSLEDOVATELSKII, SSSR, TRUDY, NO. 11, 1967. MICROFICHE COPY. STAR N69-34373.
VR-G9-3H-145-00694*	AIRBORNE MEASUREMENTS ON INFRARED SEA TEMPERATURE IN THE NORTHERN GULF OF MEXICO. K.L. DRENNAN, GULF COAST RESEARCH LAB., OCEANOGRAPHY SECTION, OCEAN SPRINGS, MISS. DEC. 1966. MICROFICHE COPY. STAR N67-29516.
VR-G9-30-000-00700*	THE VALUE OF WEATHER FORECASTS. J.C. THOMPSON, SAN JOSE STATE COLLEGE, DEPT. OF METEOROLOGY, SAN JOSE, CALIFORNIA. PUBLISHED IN SCIENCE JOURNAL, VOL. 5A, NO. 6, DEC. 1969. PP.62-66.
VR-G9-3H-162-00709*	AERIAL PHOTOGRAPHIC STUDIES OF SHALLOW WATER BENTHIC ECOLOGY. MAHLON G. KELLY, NEW YORK UNIVERSITY, BRONX, N.Y., ALFRED CONROD, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS. PUBLISHED IN REMOTE SENSING IN ECOLOGY, 1969. PP.173-184.
VR-G9-EJ-181-00716*	A METHOD OF ELIMINATING CLOUD INTERFERENCE IN SATELLITE STUDIES OF SEA SURFACE TEMPERATURES. PAUL E. LAVIOLETTE, AND PAUL L. CHABOT, U.S. NAVAL OCEANOGRAPHIC OFFICE, WASH. D.C. PUBLISHED IN DEEP-SEA RESEARCH, VOL. 16, NO. 5, NOV. 1969. PP.539-547.
VR-G9-30-000-00732*	A MODEL ATMOSPHERE FOR EARTH RESOURCES APPLICATIONS. NASA-TM X-58033. DAVID S. PITTS AND KIRBY D. KYLE, NASA/MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. NOVEMBER 1969. STAR N70-15687.
VR-G9-30-000-00739*	GENERATION AND AIRBORNE DETECTION OF INTERNAL WAVES FROM AN OBJECT MOVING THROUGH A STRATIFIED OCEAN. VOL. II. WALTER H. MUNK, CURTIS G. CALLAN, ET AL., INSTITUTE FOR DEFENSE ANALYSES, JASON DIV., ARLINGTON, VA. APRIL 1969. CONTRACT NUMBER DAHC15-67-C-0011. MICROFICHE COPY. STAR N70-13409.
VR-G9-3H-998-00741*	INVESTIGATION OF VISIBLE REGION INSTRUMENTATION FOR OCEANOGRAPHIC SATELLITES. VOL. II. A.C. CONROD, M.G. KELLY, ET AL., MASSACHUSETTS INSTITUTE OF TECHNOLOGY, EXPERIMENTAL ASTRONOMY LAB., CAMBRIDGE, MASS. MARCH 1968. CONTRACT NO. N62306-2082. MICROFICHE COPY.

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
VR-G9-30-000-00747*	INTERPRETATION OF DIFFERENT TYPES OF TUNDRA FROM AERIAL PHOTOGRAPHS AND THEIR AEROVISUAL DESCRIPTION ON THE BASIS OF FROST JOINTING. REPORT NO. FSTC-HT-23-316-68, V. ANDREEV, TRANS: FD FROM GEOGRAFICHESKIY SBORNIK, (SSSR) VOL. 7, 1955 PP.10-13. MICROFICHE COPY. STAR N70-11609.
VR-G9-30-000-00753*	OCEANOGRAPHIC INSTRUMENTATION. FINAL REPORT OF THE COMMITTEE ON INSTRUMENTATION, SECOND EDITION, REPORT NO. SP-41, U.S. NAVY HYDROGRAPHY OFFICE, WASHINGTON, D.C. OCTOBER 1960. MICROFICHE COPY.
VR-G9-30-000-00758*	HIGH FREQUENCY RADAR SEA RETURN AND THE PHILLIPS SATURATION CONSTANT. W.H. MUNK, ET AL., SCRIPPS INSTITUTION OF OCEANOGRAPHY, UNIVERSITY OF CALIFORNIA, LA JOLLA, CALIFORNIA. PUBLISHED IN NATURE, VOL. 224, NO. 5226, DEC. 1969. P.1285.
VR-G9-30-000-00759*	OBSERVATIONS OF AN ANTARCTIC OCEAN TABULAR ICEBERG FROM THE NIMBUS II SATELLITE. JOHN SISSALA, ALLIED RESEARCH ASSOC., HYATTSVILLE, MARYLAND. PUBLISHED IN NATURE, VOL. 224, NO. 5226, DEC. 1969. PP.1285-1287.
VR-G9-30-000-00763*	ORL EXPERIMENT PROGRAM. VOL. 8, PART 3 - OCEANOGRAPHY/MARINE TECHNOLOGY. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17049.
VR-G9-JF-000-00777*	A THREE-DIMENSIONAL BATHYMOGRAPHIC MAP OF CANTON ISLAND. A STUDY IN THE PROBLEMS OF CONSTRUCTING AND SYMBOLIZING MAPS OF MARINE ENVIRONMENTS. GEORGE F. JENKS, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS, AND PAUL V. CRAWFORD, BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN, OHIO. PUBLISHED IN GEOGRAPHICAL REVIEW, VOL. 60, NO. 1, JAN. 1970. PP.69-87.
VR-G9-30-000-00781*	HURRICANES AND THE SEA SURFACE TEMPERATURE FIELD. EDWIN L. FISHER, NEW YORK UNIVERSITY. PUBLISHED IN JOURNAL OF METEOROLOGY, VOL. 15, NO. 3, JUNE 1958. PP.328-333.
VR-G9-4J-138-00782*	GULF STREAM THERMAL GRADIENTS FROM SATELLITE, SHIP, AND AIRCRAFT OBSERVATIONS. WILLIAM R. CURTIS AND P. KRISHNA RAO, NATIONAL ENVIRONMENTAL SATELLITE CENTER, ESSA, WASHINGTON, D.C. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 74, NO. 28, DECEMBER 1969. PP.6984-6990.
VR-G9-30-000-00783*	STUDY OF THE APPLICATION OF LASER TECHNOLOGY TO ATMOSPHERIC CONTAMINATION MEASUREMENT. FINAL TECHNICAL REPORT, MAY 1968 APRIL 1969. NASA-CR-86221. JOHN J. HIDALGO, TULANE UNIV., NEW ORLEANS, LOUISIANA, APRIL 1969. CONTRACT NUMBER NAS12-664. STAR N69-36282.

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-3H-G57-00787*	ABYSSALLY GENERATED T PHASE. HAWAII INSTITUTE OF GEOPHYSICS CONTRIBUTION 179. ROCKNE H. JOHNSON, ET AL., UNIVERSITY OF HAWAII, HONOLULU, HAWAII. 1968. CONTRACT NO. NONR-3748(01) STAR N69-38887.
NR-G9-30-000-00791*	ATMOSPHERIC TURBIDITY OVER THE UNITED STATES, 1961-1966. E.C. FLOWERS, ET AL., CONSUMER PROTECTION AND ENVIRONMENTAL HEALTH SERVICE DIV., RALEIGH, N.C. PUBLISHED IN APPLIED METEOROLOGY, VOL. 8, NO. 5, DEC. 1969. PP.955-962.
NR-G9-30-000-00796*	A STUDY ON SOME EQUIPMENT AND ENVIRONMENTAL PARAMETERS AFFECTING AIRBORNE REMOTE PROBING OF TEMPERATURE AND PRESSURE PROFILES. REPORT NOS. AFCRL-69-0188 AND SRRC-CR-69-9. WAYNE D. MOUNT, RICHARD B. FOW, ET AL., SPERRY RAND RESEARCH CENTER, SUDBURY, MASS. MARCH 1969. CONTRACT NUMBER F19628-68-C-0295. MICROFICHE COPY. STAR N69-37972.
NR-G9-30-000-00797*	PHYSICS OF THE ATMOSPHERE AND OCEAN. TRANSLATION FROM IZVESTIA AKADEMIA NAUK, SSSR, FIZIKA ATMOSFERY I OKEANA (MOSCOW) APRIL 1969, PP.341-432. MICROFICHE COPY. STAR N69-39076 THRU N69-39086.
NR-G9-3J-167-00822*	SPECTRAL ANALYSIS OF SHALLOW WATER WAVES IN LAKE MICHIGAN. REPORT NO. MP 69-2. PAUL C. LIU, J.S. LAKE SURVEY, ARMY CORPS OF ENGINEERS, DETROIT, MICHIGAN. PRESENTED BEFORE 11TH CONFERENCE GREAT LAKES RESEARCH, MILWAUKEE, WISCONSIN. MARCH 1968. PP.412-423.
NR-G9-30-000-00850*	PHOTOGRAPHIC INVESTIGATION OF SEDIMENT TEXTURE, BOTTOM CURRENT ACTIVITY, AND BENTHONIC ORGANISMS IN THE WILMINGTON SUBMARINE CANYON. U.S.C.G.C. ROCKAWAY-SMITHSONIAN INSTITUTION CRUISE (ROS2) OCEANOGRAPHIC REPORT NO. 22. DANIEL J. STANLEY, SMITHSONIAN INSTITUTION, WASHINGTON, D.C. AND GILBERT KELLING, UNIVERSITY OF WALES, SWANSEA, GREAT BRITAIN. U.S. COAST GUARD OCEANOGRAPHIC UNIT, WASHINGTON, D.C. FEB. 1968.
NR-G9-30-000-00855*	RADAR ALTIMETRY FROM A SPACECRAFT AND ITS POTENTIAL APPLICATIONS TO GEODESY AND OCEANOGRAPHY. REPORT NO. TR-67-3. J. ARTHUR GREENWOOD, ALAN NATHAN, ET AL., NEW YORK UNIV., DEPT. OF METEOROLOGY AND OCEANOGRAPHY, NEW YORK, N.Y. MAY 1967. STAR X67-22164.
NR-G9-3H-000-00857*	SCATTERING OF LIGHT BY SARGASSO SEA WATER. GUNNER KULLENBERG, UNIVERSITY OF COPENHAGEN, INSTITUTE OF PHYSICAL OCEANOGRAPHY, COPENHAGEN, DENMARK. PUBLISHED IN DEEP-SEA RESEARCH, VOL. 15, AUG. 1968. PP.423-432.

## TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-30-000-00859*	NIMBUS II SATELLITE SEA SURFACE TEMPERATURES VERSUS HISTORICAL DATA IN A SELECTED REGION, A COMPARATIVE STUDY, PAUL E. LAVIOLETTE AND PAUL L. CHABOT, J.S. NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. PUBLISHED IN DEEP-SEA RESEARCH, VOL. 15, OCT. 1969, PP.617-622.
NR-G9-30-000-00860*	INVESTIGATING THE FEASIBILITY OF CENSUSING DEER BY REMOTE SENSING OF THERMAL INFRARED RADIATION, RICHARD M. BARTHOLOMEW, INDIANA DEPT. OF NATURAL RESOURCES, AND ROGER M. HOFFER, LABORATORY FOR REMOTE SENSING, PURDUE UNIVERSITY, LAFAYETTE, INDIANA, PRESENTED AT THE MIDWEST WILDLIFE CONFERENCE, CHICAGO, ILL., DEC. 1966.
NR-G9-30-000-00861*	MULTIPLE SCATTER EFFECTS IN REMOTE SENSING OF ENVIRONMENTAL POLLUTION, DAVID L. FEINSTEIN AND KENNETH R. PIECH, CORNELL AERONAUTICAL LAB., INC., BUFFALO, N.Y. 1969.
NR-G9-30-000-00863*	REMOTE SENSING FOR PLANNING RESOURCE CONSERVATION, C.J. JOHANNSSEN AND M.F. BAUMGARDNER, PURDUE UNIVERSITY, LAB. FOR AGRICULTURAL REMOTE SENSING, LAFAYETTE, INDIANA, 1968, AGRICULTURAL EXPERIMENT STATION JOURNAL, NO. 3439.
NR-G9-30-000-00866*	TEST PHOTOGRAPHY WITH MS EKTACHROME FOR WATER PENETRATION AND DEPICTION OF THE OFFSHORE SEA FLOOR, WILFRED G. TUDDENHAM, UNIVERSITY OF SYDNEY, AUSTRALIA, 1968.
NR-G9-30-000-00873*	METEOROLOGICAL APPLICATIONS OF REFLECTED RADIANCE MEASUREMENTS FROM ATS 1 AND ATS 3, THOMAS H. VONDER HAAR, UNIV. OF WISCONSIN, MADISON, WISCONSIN, PUBLISHED IN GEOPHYSICAL RESEARCH, VOL. 14, NO. 23, OCT. 1969, PP.5404-54412.
NR-G9-30-000-00899*	BIBLIOGRAPHY ON THE BAHAMA ISLANDS, REPORT NO. RN-37, ANNE BOERSMA, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS, AUGUST 1968.
NR-G9-30-000-00933*	HISTORY OF SHORE GROWTH FROM ANALYSIS OF AERIAL PHOTOGRAPHS, FRANCIS H. MOFFITT, UNIVERSITY OF CALIFORNIA, HYDRAULIC ENGINEERING LAB., BERKELEY, CALIFORNIA, DECEMBER 1968, MICROFICHE COPY.
NR-G9-GH-998-00976*	INVESTIGATION OF VISIBLE REGION INSTRUMENTATION FOR OCEANOGRAPHIC SATELLITES, VOL. I, A.C. CONROD, MASS. INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS, JULY 1967, CONTRACT NO. N62306-2082, MICROFICHE COPY.

**MULTISUBJECT**



**MULTISUBJECT**

**SECTION 01 SITE MAPS**

## SITE MAPS - MULTISUBJECT

ACCESSION NUMBER	LOCATION	TYPE	SIZE
NR-H1-FH-175-00216	SITE 175-HOUSTON, TEXAS, AREA	REGIONAL	17 x 22
NR-H1-30-998-00048	QUADRANT A	MAP, U.S.A., SITE INDEX	17 x 22
NR-H1-30-998-00049	QUADRANT B	MAP, U.S.A., SITE INDEX	17 x 22
NR-H1-30-998-00050	QUADRANT C	MAP, U.S.A., SITE INDEX	17 x 22
NR-H1-30-998-00051	QUADRANT D	MAP, U.S.A., SITE INDEX	17 x 22
NR-H1-30-999-00001		MAP, U.S.A., SITE INDEX	17 x 20
NR-H1-30-999-00002		MAP, U.S.A., SITE INDEX	8 x 10
NR-H1-30-999-00047	U.S. SITE INDEX TO SPECIAL MISSIONS 1-26, IR IMAGERY AUGUST 1966, U.S. GEOLOGICAL SURVEY		
NR-H1-30-999-00237	U.S. SITE INDEX - AREAS IMAGED BY WESTINGHOUSE MAPPING RADAR (FLIGHTS 73 THROUGH 106)		8 x 10
NR-H1-30-999-00238	U.S. SITE INDEX - AREAS IMAGED BY WESTINGHOUSE MAPPING RADAR (FLIGHTS 122 THROUGH 130)		8 x 10

**MULTISUBJECT**

**SECTION 04 MISSION SCREENING AND**

**SUMMARY REPORTS**

## MISSION SCREENING AND SUMMARY REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H4-EJ-998-B0013	MISSION NO. 13 SITES 003, 007, 019, 020, 050, 051, 040, 048, 049.
VR-H4-GH-998-B0036	MISSION NO. 36 SITES 095, 098, 102, 103, 104
VR-H4-EJ-114-B0039	MISSION NO. 39 SITE 114
VR-H4-EJ-998-B0056	MISSION NO. 56 SITES 003, 019, 130, 157
VR-H4-FJ-998-B0074	MISSION NO. 74 SITES 044, 076, 085, 168, 174
VR-H4-FH-998-B0089	MISSION NO. 89, SITES 030, 175, 179.
VR-H4-FJ-998-A0102	MISSION 102, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITES 011, 030, 076, 085, 186, 197
VR-H4-GJ-998-A0104	MISSION 104, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITES 142, 171, 168, 174, 176, 188, AND 201
VR-H4-FJ-998-A0106	MISSION 106, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITES 085, 175, 178, 184, AND 996
VR-H4-FJ-998-A0111	MISSION 111, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITES 196, 203, 208,
VR-H4-EJ-998-A0118	MISSION 118, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITES 029, 175, 210
VR-H4-EJ-998-B0118	MISSION NO. 118 SITES 029, 175, 210

**MULTISUBJECT**

**SECTION 05 TECHNICAL LETTER REPORTS**

## TECHNICAL LETTER REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H5-30-000-00014	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-14, SUMMARY OF SIGNIFICANT RESULTS OF REMOTE SENSING STUDIES IN 1965. W.D. CARTER, U.S.G.S., WASHINGTON, D.C. MAY 1966. CONTRACT NO. R-09-020-013. STAR X66-18330.
NR-H5-30-000-00015	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-15, A MILLIMETER WAVELENGTH INTERFEROMETER SPECTROMETER, GEERT WYNTJES AND NEILS O. YOUNG, BLOCK ENGINEERING, INC., CAMBRIDGE, MASSACHUSETTS. MAY 9, 1966, CONTRACT NO. R-146.
NR-H5-30-000-00022	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-22, TIME, SHADOWS, TERRAIN AND PHOTOINTERPRETATION. R. J. HACKMAN, U.S.G.S., WASHINGTON, D.C. MAY 1966. CONTRACT NO. R-09-020-013. STAR X66-18939.
NR-H5-30-000-00031	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-31, ULTRAVIOLET INSTRUMENTATION FOR ORBITAL REMOTE SENSORS, H.T. BETZ, IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS. JUNE 1966. CONTRACT NO. R-146-09-020-006. STAR X66-18311.
NR-H5-30-000-00035	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-35, GEOLOGIC INTERPRETATION OF NIMBUS PHOTOGRAPHY - EVALUATION OF HIGH RESOLUTION. M. A. CONTI, U.S.G.S., WASHINGTON, D.C. APRIL 1967. CONTRACT NO. R-09-020-011.
NR-H5-30-000-00065	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-65, DISPERSIVE MULTISPECTRAL SCANNING: A FEASIBILITY STUDY, J. BRATTHWAITE. WILLOW RUN LABORATORIES OF THE INSTITUTE OF SCIENCE AND TECHNOLOGY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN. NOVEMBER 1966. CONTRACT NO. R-146-09-020-006.
NR-H5-30-998-00066	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-66, STATUS REPORT OF INFRARED INVESTIGATIONS (JULY 1, 1966 TO SEPTEMBER 30, 1966). ROBERT M. NOXHAM, U.S.G.S., WASHINGTON, D.C. NOVEMBER 1966. CONTRACT NO. R-146. STAR X67-10475.
NR-H5-30-000-00067	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-67. RADAR AS A TOOL FOR REGIONAL INVESTIGATIONS. NELSON R. NUNNALLY, UNIVERSITY OF ILLINOIS, DEPT. OF GEOGRAPHY, URBANA, ILL. FEBRUARY 1969. CONTRACT NUMBER R-09-020-024.
NR-H5-30-000-00069	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-69, GEMINI PHOTOGRAPHY EVALUATION. ROBERT H. NUGENT AND LOWELL R. STARR, U.S.G.S., WASHINGTON, D.C. MARCH 1967. CONTRACT NO. R-09-020-024.

## TECHNICAL LETTER REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H5-EJ-000-00075	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-75. USE OF INFRARED IMAGERY AND COLOR PHOTOGRAPHY IN STUDY OF MISSILE IMPACT CRATERS. HENRY J. MOORE, DAVID CUMMINGS, AND D.E. GAULT, U.S. GEOLOGICAL SURVEY, MENLO PARK, CALIFORNIA. APRIL 1967. CONTRACT NUMBER R-09-020-015.
NR-H5-4K-000-00081	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-81, RADAR IMAGERY: PARMACHENEE LAKE AREA, WEST-CENTRAL MAINE. D. S. HARWOOD U.S.G.S., WASHINGTON, D.C., JUNE 1967. CONTRACT NO. R-09-020-015.
NR-H5-JO-000-00086	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-86. ANNOTATED BIBLIOGRAPHY OF USGS TECHNICAL LETTERS-NASA ON REMOTE SENSING INVESTIGATIONS THROUGH JUNE 1967. WILLIAM D. CARTER, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. SEPTEMBER 1969. CONTRACT NUMBER R-09-020-011.
NR-H5-JO-000-00088	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-88, AN ENGINEERING FEASIBILITY STUDY OF AN ORBITING SCANNING RADIOMETER. J. BRAITHWAITE, A. W. KRAUSE, AND W. L. BROWN, WILLOW RUN LABORATORIES OF THE INSTITUTE OF SCIENCE AND TECHNOLOGY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN. MAY 1967. CONTRACT NO. 14-08-0001-10108. STAR N69-28322.
NR-H5-JO-000-00091	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-91, FAR INFRARED LUMINESCENCE. A.E. STODDARD, U.S.G.S., WASHINGTON, D.C. OCTOBER 1967. CONTRACT NOS. R-146-09-020-006 AND T-65754. STAR N69-28319.
NR-H5-JO-000-00092	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-92, VISIBLE AND ULTRAVIOLET REFLECTANCE AND LUMINESCENCE FROM VARIOUS SAUDI ARABIAN AND INDIANA LIMESTONE ROCKS. H.V. WATTS AND H.J. GOLDMAN, IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS. OCTOBER 1967. CONTRACT NO. T-65757. (CONTINUATION OF INFORMATION IN TECHNICAL LETTER NASA-32) STAR N69-28161.
NR-H5-JO-000-00094	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-94. FILM DENSITY ANALYZERS FOR INFRARED INVESTIGATIONS. ROBERT M. TURNER AND GEORGE R. BCYNTON, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. JANUARY 1968. CONTRACT NO. T-65754-G. STAR N69-28159.
NR-H5-JO-000-00095	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-95, A SURVEY OF LUNAR GEOLOGY. JERALD J. COOK, WILLOW RUN LABORATORIES, INSTITUTE OF SCIENCE AND TECHNOLOGY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, NOVEMBER 1967. CONTRACT NO. R-146-09-020-006. STAR N69-28247.

## TECHNICAL LETTER REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H5-J0-000-00097	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-97, COMPARISON OF A UV SCANNER/PHOTOMULTIPLIER WITH AN IMAGE ORTHICON, HOWARD GOLDMAN AND ROBERT MARSHALL, IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS, OCTOBER 1967, CONTRACT NUMBER R-146-09-020-006, STAR N69-28376.
VR-H5-EJ-014-00103	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-103, IMAGERY OF CRATERS PRODUCED BY MISSILE IMPACTS, HENRY J. MOORE AND REUBEN KACHADOORIAN, U.S. GEOLOGICAL SURVEY, MENLO PARK, CALIFORNIA, AND J.F. MCCAULEY, FLAGSTAFF, ARIZONA, MARCH 1968, CONTRACT NUMBER R-09-020-015, STAR N68-19346.
VR-H5-EJ-998-00105	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-105, INFRARED IMAGERY AND RADIOMETRY SUMMARY REPORT, R.M. MOXHAM, G.W. GREENE, J.D. FRIEDMAN, AND S.J. GAWARECKI, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C., DECEMBER 1967, CONTRACT NUMBER T-65754-G, STAR N69-28153.
VR-H5-EJ-998-00117	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-117, MAKING COLOR INFRARED FILM A MORE EFFECTIVE HIGH ALTITUDE SENSOR, ROBERT W. PEASE AND LEONARD W. BOWDEN, DEPARTMENT OF GEOGRAPHY, UNIVERSITY OF CALIFORNIA, RIVERSIDE, CALIFORNIA, MAY 1968, CONTRACT NUMBER R-14-08-0001-10674, STAR N69-28379.
VR-H5-J0-000-00122	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-122, GRIDDING OF NEAR VERTICAL UNRECTIFIED SPACE PHOTOGRAPHS, RICHARD H. RAPP AND WILLIAM H. SPRINSKY, OHIO STATE UNIVERSITY, DEPARTMENT OF GEODETIC SCIENCE, COLUMBUS, OHIO, JUNE 1968, CONTRACT NUMBER 14-08-0001-10666, STAR N68-27573.
VR-H5-GJ-142-00128	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-128, PRELIMINARY REMOTE SENSING OF THE DELAWARE ESTUARY, RICHARD W. PAULSON, U.S. GEOLOGICAL SURVEY, PHILADELPHIA, PENNSYLVANIA, OCTOBER 1968, CONTRACT NO. R-146-09-020-011, STAR N69-28326.
VR-H5-00-000-00129	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-129, SELECTED BIBLIOGRAPHY OF REMOTE SENSING, ROBERT B. HONEA, EAST TENNESSEE STATE UNIVERSITY, JOHNSON CITY, TENNESSEE, AND VIRGINIA L. PRENTICE, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, SEPTEMBER 1968, CONTRACT NUMBER U.S.G.S. 14-008-001-10921, STAR N68-36402.
VR-H5-EJ-998-00132	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-132, MISSION 73, SUMMARY AND DATA CATALOG, RICHARD F. PASCUCCI AND GARY W. NORTH, AUTOMETRIC OPERATION, RAYTHEON COMPANY, ALEXANDRIA, VIRGINIA, AUGUST 1968, CONTRACT NUMBER R-09-020-024 (A/1), STAR N69-28163.



## TECHNICAL LETTER REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H5-JJ-061-00136	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-136. A RAPID FILM DENSITY ANALYZER. G.R. ROYNTON AND R.M. MOXHAM, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. FEBRUARY 1969. CONTRACT NUMBER T-65754.
NR-H5-EJ-998-00142	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-142. ANALYSIS OF MULTISENSOR DATA. RAYTHEON CO., AUTOMETRIC OPERATION, ALEXANDRIA, VIRGINIA. NOVEMBER 1968. CONTRACT NO. W-12589.
NR-H5-JO-000-00143	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-143. SENSOR DETECTION CAPABILITIES STUDY. JOHN E. WILSON, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1969. CONTRACT NUMBERS W-12570 AND 160-75-01-31-10.
NR-H5-GJ-046-00145	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-145. COHERENT OPTICAL DATA PROCESSING AND REMOTELY SENSED IMAGERY. BRUCE E. MACDOUGALL, UNIVERSITY OF TORONTO, DEPT. OF GEOGRAPHY, TORONTO, ONTARIO, CANADA. MAY 1969. CONTRACT NUMBER R-09-020-024(A/1).
NR-H5-JO-000-00146	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-146. PREDICTING THE RELATIVE DYE LAYER DENSITIES OF COLOR INFRARED TRANSPARENCIES. ROBERT W. PEASE, UNIVERSITY OF CALIF., DEPT. OF GEOGRAPHY, RIVERSIDE, CALIFORNIA. JANUARY 1969. CONTRACT NUMBER R-09-020-024(A/1).
NR-H5-JO-000-00147	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-147. STUDIES IN REMOTE SENSING OF SOUTHERN CALIFORNIA AND RELATED ENVIRONMENTS. PLANT TISSUE AND THE COLOR INFRARED RECORD. ROBERT W. PEASE, UNIVERSITY OF CALIFORNIA, DEPT. OF GEOGRAPHY, RIVERSIDE, CALIFORNIA. FEBRUARY 1969. CONTRACT NUMBER R-09-020-024(A/1).
NR-H5-EJ-998-00149	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-149. MICROWAVE RADIOMETRIC STUDIES AND GROUND TRUTH MEASUREMENTS OF THE NASA/USGS SOUTHERN CALIFORNIA TEST SITE. A.T. EDGERTON, ET AL., AEROJET-GENERAL CORP., SPACE DIVISION, EL MONTE, CALIFORNIA. MARCH 1969. CONTRACT NUMBER W-12570.
NR-H5-JO-000-00157	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-157. THE FRAUNHOFER LINE DISCRIMINATOR - AN AIRBORNE FLUOROMETER. GEORGE E. STOERTZ, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1969. CONTRACT NUMBER T-80485C.
NR-H5-JO-000-00159	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-159. TESTING THE FRAUNHOFER LINE DISCRIMINATOR BY SENSING FLUORESCENT DYE. GEORGE E. STOERTZ, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1969. CONTRACT NUMBER T-80485C.

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ACCESSION NUMBER	DESCRIPTION
NR-H5-DJ-211-00175	U.S. GEOLOGICAL SURVEY, TECHNICAL LETTER NASA-175. TEST OF DATA COMPILATION PROCEDURES FOR THE FRAUNHOFER LINE DISCRIMINATOR. GEORGE E. STOERTZ, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 1969. CONTRACT NUMBER T-80485C.
NR-H5-EJ-998-01002	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 2. VARIATIONS OF EMISSIVITY IN THE INFRARED RANGE (8 TO 14μ). JOSEPH LINTZ, JACK GUADE, ET AL. MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. CONTRACT NO. NGR 1-38-7751.
NR-H5-EJ-019-01005	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 5. SURFACE ROUGHNESS 1/10 TO 100 μM. JOSEPH LINTZ, JACK GUADE, ET AL. MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. CONTRACT NO. NGR 1-38-7751.
NR-H5-EJ-998-01006	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 6. GROUND MONITORING OF OVERFLIGHTS. DR. JOSEPH LINTZ, JACK GUADE, ET AL. MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. CONTRACT NO. NGR 1-38-7751. STAR N69-74845
NR-H5-EJ-998-01015	MACKAY SCHOOL OF MINES, TECHNICAL LETTER - 15. U.S.F.C. MICROWAVE EXPERIMENT SUPPORT. PETER A. BRENNAN, PETER E. CHAPMAN, AND JACK G. GUADE, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA. NOVEMBER 1968. CONTRACT NUMBER NAS 9-7779.

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**SECTION 07 SUMMARY REPORTS**

## SUMMARY REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H7-00-000-00001	PEACEFUL USES OF EARTH-OBSERVATION SPACECRAFT, VOLUME I, INTRODUCTION AND SUMMARY, NASA CR-586, CONTRACT NO. NASW-1084, BY UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN STAR N66-37028.
VR-H7-00-000-00002	PEACEFUL USES OF EARTH-OBSERVATION SPACECRAFT, VOLUME II, SURVEY OF APPLICATIONS AND BENEFITS, NASA CR-587, CONTRACT NO. NASW-1084, BY UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN. STAR N66-37029.
VR-H7-00-000-00003	PEACEFUL USES OF EARTH-OBSERVATION SPACECRAFT, VOLUME III, SENSOR REQUIREMENTS AND EXPERIMENTS, NASA CR-588, CONTRACT NO. NASW-1084, BY THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN. STAR N66-37030.
VR-H7-00-000-00005	A SURVEY OF SPACE APPLICATIONS, NASA SP-142. OFFICE OF TECHNOLOGY UTILIZATION SCIENTIFIC INFORMATION DIVISION, WASHINGTON, D.C. APRIL 1967, STAR N67-23338
VR-H7-00-000-00007	EARTH RESOURCE SURVEYS FROM SPACECRAFT, SAMPLE ANALYSES AND INTERPRETATIONS RELATING TO AGRICULTURE, CARTOGRAPHY, FORESTRY, GEOGRAPHY, GEOLOGY, HYDROLOGY, AND OCEANOGRAPHY, ROGER A. LEESTMA AND RICHARD A. WHITE, PREPARED BY THE U.S. ARMY CORPS OF ENGINEERS FOR THE EARTH RESOURCES SURVEY PROGRAM, SPACE APPLICATIONS PROGRAMS OFFICE, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C. ISSUED 1967. INTERAGENCY PURCHASE REQUEST R-47-009-001, 2 V. LIBRARY CALL NUMBER QE 501 U4.
VR-H7-00-000-00008	BIBLIOGRAPHY OF REMOTE SENSING OF RESOURCES, PREPARED FOR THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, SPACE APPLICATIONS PROGRAM, EARTH RESOURCES SURVEY PROGRAM. BY MRS. NATALIE E. JONES AND DR. ROGER A. LEESTMA, U.S. ARMY CORPS OF ENGINEERS, FORT BELVOIR, VIRGINIA, SEPTEMBER 1968. DEFENSE PURCHASE REQUEST R-47-009-006. STAR N68-19870.
VR-H7-00-000-00009	RADAR BIBLIOGRAPHY FOR GEOSCIENTISTS. CRES REPORT 61-30. ROBERT L. WALTERS, REMOTE SENSING LABORATORY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, MARCH 1968, CONTRACT NUMBERS NSR-17-004-003, NSG-298, USGS 14-08-0001-10848, AND NAS 175. STAR N69-30303.
VR-H7-00-000-00010	PROCEEDINGS OF GROUND TRUTH SESSION, NOVEMBER 1967. PREPARED BY TEST AND OPERATIONS OFFICE, SCIENCE AND APPLICATIONS DIRECTORATE, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, EARTH RESOURCES PROGRAM, MANNED SPACECRAFT CENTER, HOUSTON. STAR N69-30352

## SUMMARY REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H7-30-000-00012	PROCEEDINGS OF THE WINTER STUDY ON USES OF MANNED SPACE FLIGHT, 1975-1985. NASA SCIENCE AND TECHNOLOGY ADVISORY COMMITTEE FOR MANNED SPACE FLIGHT. A CONFERENCE HELD AT LA JOLLA, CALIFORNIA, DEC. 6-9, 1968. VOL. I, PROCEEDINGS, VOL. II, APPENDIXES. NASA SP-196. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C. (VOL. II) STAR N70-17026.
VR-H7-30-000-00015	PROCEEDINGS OF THE FOURTH SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, APRIL 12-14, 1966; INFRARED PHYSICS LABORATORY, WILLOW RUN LABORATORIES, INSTITUTE OF SCIENCE AND TECHNOLOGY UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN. STAR N67-13461.
VR-H7-30-000-00016	MARSHALL SPACE FLIGHT CENTER REMOTE SENSING SYMPOSIUM, NOVEMBER 9, 1965. NASA TECHNICAL MEMORANDUM NASA TM-X-53514. GEORGE C. MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA. SEPTEMBER 8, 1966. CONTRACT NO. NASA TM-X-53514. STAR X68-86970.
VR-H7-30-000-00017	SPACE APPLICATIONS SUMMER STUDY 1967, INTERIM REPORT V.1, CENTRAL REVIEW COMMITTEE CONCLUSIONS AND RECOMMENDATIONS, SUMMARIES OF PANEL REPORTS, NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. JANUARY 1968. TASK ORDER NSR 09-012-909. STAR N68-18135.
VR-H7-30-000-00018	PROCEEDINGS OF THE FIRST SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, FEBRUARY 13-15, 1962. UNIVERSITY OF MICHIGAN, INFRARED LABORATORY, INSTITUTE OF SCIENCE AND TECHNOLOGY, ANN ARBOR, MICHIGAN. SECOND REVISED PRINTING, APRIL 1964. CONTRACT NUMBER NONR 1224(44).
VR-H7-30-000-00019	PROCEEDINGS OF THE SECOND SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, OCTOBER 15-17, 1962. UNIVERSITY OF MICHIGAN, INFRARED LABORATORY, INSTITUTE OF SCIENCE AND TECHNOLOGY, ANN ARBOR, MICHIGAN. FEBRUARY 1963. CONTRACT NUMBER NONR 1224(44). STAR N66-81277.
VR-H7-30-000-00020	SUPPORTING RESEARCH AND ADVANCED DEVELOPMENT. SPACE PROGRAMS SUMMARY 37-55, VOL. 3, JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA. FEBRUARY 28, 1969. CONTRACT NUMBER NAS 7-100.
VR-H7-30-000-00021	THE UNIVERSITY OF MICHIGAN NOTES FOR A PROGRAM OF STUDY IN REMOTE SENSING OF EARTH RESOURCES. CONDUCTED AT NASA, MSC, HOUSTON, TEXAS, 14 FEBRUARY 1968 - 3 MAY 1968. UNIVERSITY OF MICHIGAN, WILLOW RUN LABORATORIES, ANN ARBOR, MICHIGAN, NOVEMBER 1968. CONTRACT NUMBER NAS 9-7676.

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ACCESSION NUMBER	DESCRIPTION
NR-H7-FH-998-00022	GEMINI SUMMARY CONFERENCE. FEBRUARY 1-2, 1967, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C. NASA SP-138. STAR N68-14941.
NR-H7-EJ-998-00023	EARTH PHOTOGRAPHS FROM GEMINI III, IV, AND V. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C. 1967 NASA SP-129. STAR N67-26641.
NR-H7-GH-998-00024	EARTH PHOTOGRAPHS FROM GEMINI VI THROUGH XII. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C. 1968 NASA SP-171. STAR N69-28909.
NR-H7-GH-998-00025	SUMMARY OF THE GEMINI PROGRAM AND ITS EFFECT ON MANNED SPACE SCIENCE. PRESENTED AT THE PROCEEDINGS OF THE SEVENTH INTERNATIONAL SYMPOSIUM ON SPACE TECHNOLOGY AND SCIENCE. TOKYO, 1967. ROBERT O. PILAND AND PAUL R. PENROD, NASA/MANNED SPACECRAFT CENTER, HOUSTON, TEXAS.
NR-H7-JO-000-00027	BIBLIOGRAPHY ON OPTICAL INFORMATION AND DATA PROCESSING. EML RESEARCH REPORT NO. 3. J.P. MOFFATT, A.T. SHANKLE, AND F.J. TISCHER, NORTH CAROLINA STATE UNIVERSITY, RALEIGH, NORTH CAROLINA. NOVEMBER 1966. CONTRACT NO. NGR-34-002-038. STAR N67-17966.
NR-H7-JO-000-00028	PHOTOGRAPHY OF THE EARTH FROM SOUNDING ROCKETS AND SATELLITES. A REVIEW. PAUL D. LOWMAN, JR., GODDARD SPACE FLIGHT CENTER, GREENBELT, MD, 1964
NR-H7-JO-000-00029	EARTH-RESOURCE SURVEY FROM SPACE. PAUL G. THOMAS, ASSOCIATE EDITOR, SPACE/AERONAUTICS. PUBLISHED IN VOL. 50, JULY 1968, P.46-54.
NR-H7-JO-000-00030	USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES. REPORT OF THE CENTRAL REVIEW COMMITTEE, SUMMER STUDY ON SPACE APPLICATIONS. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. 1969. CONTRACT NUMBER NSR 09-012-909. STAR N69-27755.
NR-H7-JO-000-00031	USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES. SUMMARIES OF PANEL REPORTS, SUMMER STUDY ON SPACE APPLICATIONS, NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. 1969. CONTRACT NUMBER NSR 09-012-909. STAR N69-28240.

## SUMMARY REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H7-30-000-00037	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES, SENSORS AND DATA SYSTEMS-NO. 6. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR-09-012-909, STAR N69-27754.
NR-H7-30-000-00038	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES, POINTS-TO-POINT COMMUNICATION NO. 7. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR 09-012-909, STAR N69-27875.
NR-H7-30-000-00039	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES, SYSTEMS FOR REMOTE-SENSING INFORMATION AND DISTRIBUTION-NO. 8. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR 09-012-909.
NR-H7-30-000-00040	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES, POINT-TO-POINT COMMUNICATIONS NO. 9. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR 09-012-909.
NR-H7-30-000-00041	SPACE APPLICATIONS SUMMER STUDY 1969. USEFUL APPLICATIONS OF EARTH-ORIENTED SATELLITES, BROADCASTING-NO. 10. NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. CONTRACT NUMBER NSR 09-012-909. STAR N69-28938.
NR-H7-30-000-00044	SUMMARY OF TANGIBLE RESULTS ACHIEVED BY EARTH OBSERVATION SATELLITES TO DATE. ERIC S. BURNETT, TRW SYSTEMS, REDONDO BEACH, CALIFORNIA. JULY 1969.
NR-H7-30-000-00048	THE AMERICAN SOCIETY OF PHOTOGRAMMETRY. SEMI-ANNUAL MEETING SEPTEMBER 29, OCTOBER 3, 1968. SAN ANTONIO, TEXAS.
NR-H7-30-000-00054*	REMOTE SENSING RESEARCH IN THE UNITED STATES. A SUMMARY, WILLIAM A. FISCHER, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PRESENTED AT THE INTERNATIONAL CONGRESS FOR PHOTOGRAMMETRY, 11TH, LAUSANNE, SWITZERLAND, JULY 1968. STAR N69-40907.
NR-H7-EJ-998-00057*	SUMMARY REPORT ON PHOTOGRAPHY OBTAINED WITH ALOTS (AUTOMATIC LIGHTWEIGHT OPTICAL TRACKING SYSTEM) IN SUPPORT OF THE EARTH RESOURCES AIRCRAFT PROGRAM. P.N. SLATER, R.H. NOBLE AND B.J. SAVIDGE, UNIVERSITY OF ARIZONA, OPTICAL SCIENCES LAB., TUCSON, ARIZONA. MARCH 1967. CONTRACT NO. NSR-03-002-066.

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**SECTION 08 SUBJECT RELATED DOCUMENTS**



SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00001	MANNED LUNAR ORBITAL MISSIONS; VOLUME I (2ND EDITION), APRIL 1965, PRELIMINARY MISSION DEFINITION FOR POST APOLLO MANNED EXPLORATION OF SPACE
NR-H8-30-000-00002	MANNED LUNAR ORBITAL MISSIONS; VOLUME IA, APRIL 1965, REVISED SUBMISSIONS FROM POTENTIAL EXPERIMENTERS
NR-H8-30-000-00003	ANALYSIS OF REMOTE SENSING DATA REQUIREMENTS BY EXPERIMENT; NASA MSC, ISSUE DATE, NOVEMBER 1965.
NR-H8-30-000-00004	MANNED EARTH ORBITAL MISSION; PART I (2ND EDITION) NOVEMBER 1965, PRELIMINARY MISSION DEFINITION FOR POST APOLLO MANNED EXPLORATION OF SPACE.
NR-H8-30-000-00005	SELENODETTIC STUDY ON CONSOLIDATION OF AERONAUTICAL CHART AND INFORMATION CENTER AND ARMY MAP SERVICE LUNAR CONTROL SYSTEMS. FINAL REPORT, FEBRUARY 1966. U.S. AIR FORCE, LUNAR AND PLANETARY BRANCH, CARTOGRAPHY DIVISION, AERONAUTICAL CHART AND INFORMATION CENTER, ST. LOUIS, MISSOURI. NASA DEFENSE PURCHASE REQUEST T-42805 (G).
NR-H8-30-000-00006	MANNED EARTH ORBITAL MISSION; PART II (2ND EDITION) DECEMBER 1965, PRELIMINARY MISSION DEFINITION FOR POST APOLLO MANNED EXPLORATION OF SPACE.
NR-H8-30-000-00011	REMOTE SENSOR AIRCRAFT DATA GATHERING SYSTEM DATA PROCESSING AND DISTRIBUTING UNIT; NATURAL RESOURCES PROGRAM, SPACE APPLICATIONS PROGRAMS OFFICE, MARCH 1966.
NR-H8-30-000-00012	PRELIMINARY NEWSLETTER, 'PURDUE FIELD EXPERIMENTS USING THE PERKIN-ELMER SG-4 SPECTROMETER' JULY 11, 1966, PURDUE UNIVERSITY, LAFAYETTE, INDIANA, ROGER A. HOLMES, SCHOOL OF ELECTRICAL ENGINEERING, CONTRACT NUMBER NGR-15-005-028.
NR-H8-30-000-00013*	SOME PHYSICAL FACTORS AFFECTING RADIOGRAPHIC IMAGE QUALITY - THEIR THEORETICAL BASIS AND MEASUREMENT. LLOYD M. BATES, DEPT. OF RADIOLOGICAL SERVICES, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD. JUNE 1966. PUBLISHED IN ENVIRONMENTAL HEALTH SERIES, PUBLICATION NO. 999-RH-38.
NR-H8-30-000-00014*	DESCRIPTION OF IMAGES OF VISUAL OBJECTS THROUGH CORRELATION FUNCTIONS. V.M. MOROZ, PUBLISHED IN AVTOMATIKA, VOL. 14, SEPT.-OCT. 1969. PP.80-82. MICROFICHE COPY.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H3-30-000-00017	PROPOSED INSTRUMENT CALIBRATION SITES, APPLICATIONS AREAS AND RESPONSIBLE AREAS AND RESPONSIBLE SCIENTISTS, MAY 2, 1966
NR-H3-30-000-00020*	MULTIPLE IMAGERY WITH BIREFRINGENT LENSES. R.S. ENG, AND K.G. LEIB, GRUMMAN AEROSPACE CORP., BETHPAGE, N.Y. PUBLISHED IN APPLIED OPTICS, VOL. 8, NO. 10, OCT. 1969. PP.2117-2120.
NR-H3-30-000-00021*	DIE BEUGUNGSERSCHINUNGEN - A TRIBUTE TO F.M. SCHWERDS MONUMENTAL WORK ON FRAUNHOFER DIFFRACTION. RICHARD B. HOOVER, NASA/MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALA. PUBLISHED IN APPLIED OPTICS, VOL. 8, NO. 11, NOV. 1969. PP.2161-2164.
NR-H3-30-000-00022*	HIGH-SPEED PHOTOGRAPHY OF AIRBORNE ATMOSPHERIC PARTICLES. THEODORE W. CANNON, NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, BOULDER, COLORADO. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 9, NO. 1, FEB. 1970. PP.104-108.
NR-H3-30-000-00023*	A PASSIVE OPTICAL TECHNIQUE FOR REMOTE SENSING OF HORIZONTAL WIND PROFILES AND ATMOSPHERIC TURBULENCE. FRITZ R. KRAUSE, AERO-ASTRODYNAMICS LAB., NASA/GEORGE C. MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA. PRESENTED AT AMERICAN GEOPHYSICAL UNION, 48TH ANNUAL MEETING, APRIL 1967.
NR-H3-30-000-00024*	DESIGN GUIDE - MEASURING TEMPERATURE. LAWRENCE LYNNWORTH, PANAMETRICS INC., ESTERLINE CORP., WALTHAM, MASS. PUBLISHED IN MACHINE DESIGN, VOL. 41, NOV. 1969. PP.189-204.
NR-H3-30-000-00026*	OBSERVATION OF RAMAN SCATTERING BY WATER VAPOR IN THE ATMOSPHERE. S.W. MELFI, J.D. LAWRENCE, JR., ET AL., NASA/ LANGLEY RESEARCH CENTER, HAMPTON, VA. PUBLISHED IN APPLIED PHYSICS LETTERS, VOL. 15, NO. 9, NOV. 1969. PP.295-297.
NR-H3-30-000-00027*	DIGITAL TERRAIN MODEL. M.W. CRIST, MERIDIAN AIRMAPS, LTD., LONDON, ENGLAND. PUBLISHED IN THE CONSULTING ENGINEER, VOL. 33, JUNE 1969. PP.46-47.
NR-H3-30-000-00028*	THE ROLE OF OPTICS IN THE APOLLO PROGRAM. L. RICHARD LANKES LOCKHEED ELECTRONICS CO., HOUSTON, TEXAS. PUBLISHED IN OPTICAL SPECTRA, VOL. 3, SEPT.-OCT. 1969. PP.35-56.
NR-H3-30-000-00029*	THE OPTICAL ARRAY - AN ALTERNATIVE TO SCATTERING OR EXTINCTION FOR AIRBORNE PARTICLE SIZE DETERMINATION. ROBERT G. KNOLLENBERG, NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, BOULDER, COLORADO. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 9, NO. 1, FEB. 1970. PP.86-103.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00030	SCIENTIFIC SATELLITES, WILLIAM R. CORLISS, OFFICE OF TECHNOLOGY UTILIZATION, SCIENTIFIC AND TECHNICAL INFORMATION DIVISION, NASA, WASHINGTON, D.C. 1967. NASA SP-133.
NR-H8-30-000-00032*	THE PHOTOGRAPHIC IMAGE, SHINGO DOJE, RESEARCH LABORATORIES, FUJI PHOTO FILM CO., LTD., KITAADACHI, JAPAN. PUBLISHED IN PROGRESS IN OPTICS, VOL. 7, 1969. PP.299-358.
NR-H8-30-000-00033	MANUAL OF COLOR AERIAL PHOTOGRAPHY, AMERICAN SOCIETY OF PHOTOGRAMMETRY, FIRST EDITION, 1968. JOHN T. SMITH, JR., EDITOR-IN-CHIEF, AND ABRAHAM ANSON, ASSOCIATE EDITOR.
NR-H8-30-000-00035	THIRD ANNUAL NASA-UNIVERSITY CONFERENCE ON MANUAL CONTROL, MARCH 1-3, 1967. UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CALIFORNIA. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, SCIENTIFIC AND TECHNICAL INFORMATION DIVISION, WASHINGTON, D.C. NASA SP-144.
NR-H8-30-000-00036	SPACE ENVIRONMENT CRITERIA GUIDELINES FOR USE IN SPACE VEHICLE DEVELOPMENT (1968 REVISION) NASA TM X-53798. EDITED BY ROBERT E. SMITH AND DON K. WEIDNER, AERO-ASTRODYNAMICS LABORATORY, MARSHALL SPACE FLIGHT CENTER, ALABAMA. OCTOBER 31, 1968.
NR-H8-30-000-00037	A COMPUTER PROGRAM FOR SIMPLIFYING INCOMPLETELY SPECIFIED SEQUENTIAL MACHINES USING THE PAULL AND UNGER TECHNIQUE. TECHNICAL REPORT 32-997. M.M. EBERSOLE AND P.E. LECOG, JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA, NOVEMBER 15, 1968. CONTRACT NUMBER NAS 7-100.
NR-H8-30-000-00038	CARD FORMAT FOR OPTICAL AND RADAR PLANETARY DATA. TECHNICAL REPORT 32-1296, DOUGLAS A. O'HANDLEY, JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA, MAY 1, 1968. CONTRACT NUMBER NAS 7-100.
NR-H8-30-000-00039*	HOLOGRAPHIC COLOR SCHLIEREN. J.E. OHARE AND J.D. TROLINGER, ARO, INC., ARNOLD AIR FORCE STATION, TENN. PUBLISHED IN APPLIED OPTICS, VOL. 8, NO. 10, OCT. 1969. PP.2047-2050.
NR-H8-30-000-00040	CONSTANTS AND RELATED INFORMATION FOR ASTRODYNAMIC CALCULATIONS, 1968. TECHNICAL REPORT 32-1306, WILLIAM G. MELBOURNE, J. DERRAL MULLHOLLAND, ET AL, JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA, JULY 15, 1968. CONTRACT NUMBER NAS 7-100.

SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00041	LANDING DYNAMICS PROGRAM FOR AXISYMMETRIC IMPACT ATTENUATING VEHICLES (LANDIT), TECHNICAL REPORT 32-1341, ALBERT C. KNOELL, JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA, NOVEMBER 15, 1968, CONTRACT NUMBER NAS 7-100.
VR-H8-30-000-00042*	INFRARED AND MICROWAVE COMMUNICATION BY MOTHS, HENRY S. HSIAO AND DR. CHARLES SUSSKIND, UNIVERSITY OF CALIFORNIA, ENGINEERING DEPT., BERKELEY, CALIFORNIA, PUBLISHED IN IEEE SPECTRUM, VOL. 7, NO. 3, MARCH 1970. PP.69-76.
VR-H8-30-000-00043	RADIO-FREQUENCY PERFORMANCE OF AN 85-FT GROUND ANTENNA, X-BAND. TECHNICAL REPORT 32-1300. DAN A. BATHKER, JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA CALIFORNIA, JULY 1, 1968, CONTRACT NO. NAS 7-100.
VR-H8-30-000-00044	THE RANGER IX FLIGHT PATH AND ITS DETERMINATION FROM TRACKING DATA. TECHNICAL REPORT 32-767. C.J. VEGOS, F. BORN CAMP, ET AL, JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA, NOVEMBER 1, 1968. CONTRACT NUMBER NAS 7-100.
VR-H8-EJ-000-00045*	VARIATIONS IN THE ABSORPTION SPECTRA OF ATMOSPHERIC DUST. REPORT NO. ECOM-5274. G.B. MOIDALE AND A.J. BLANCO, U.S. ARMY ELECTRONICS COMMAND, FORT MONMOUTH, N.J. OCT. 1969. MICROFICHE COPY. STAR N70-17236.
VR-H8-30-000-00046*	A SELECTED ANNOTATED BIBLIOGRAPHY ON LIGHTNING (1964-1969). REPORT NO. USAF ETAC-TN-69-8. ALVIN L. SMITH, JR., AND DENNIS L. BOYER, U.S. AIR FORCE, ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER, WASHINGTON, D.C. NOV. 1969. MICROFICHE COPY. STAR N70-17008.
VR-H8-30-000-00047*	BIOMECHANICS STUDIES ON DYNAMIC SHAPE RECOGNITION. FINAL TECHNICAL REPORT. GABRIEL E. LOWITZ, TEW SYSTEMS, REDONDO BEACH, CALIFORNIA. NOV. 1968. CONTRACT NUMBER DAH04-68-C-0016. MICROFICHE COPY.
VR-H8-30-000-00048*	THE DOPPLER M.P. OF AN EDGE, M.R. WEISS, THE MITRE CORP., BEDFORD, MASS. NOV. 1968, CONTRACT NO. AF19(628)-5165. MICROFICHE COPY.
VR-H8-30-000-00049*	COMPUTER ANALYSIS OF INFRA-RED SPECTRA, REPORT NUMBER ESRO-TN-27/ESTEC. A. ACCENSI AND J. DAUPHIN, EUROPEAN SPACE RESEARCH AND TECHNOLOGY CENTER, NOORDWIJK, THE NETHERLANDS. MAY 1968. MICROFICHE COPY. STAR N68-36936.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00050*	RADIANCE AND POLARIZATION OF MULTIPLE SCATTERED LIGHT FROM HAZE AND CLOUDS. GEORGE W. KATTAWAR AND GILBERT N. PLASS, SOUTHWEST CENTER FOR ADVANCED STUDIES, DALLAS, TEXAS, SEPT. 1967. REPRINTED FROM APPLIED OPTICS, VOL. 7, NO. 8, AUG. 1968. PP.1519-1527. MICROFICHE AND HARD COPY.
VR-H8-30-000-00051*	RECENT PROGRESS IN COMPUTER PROCESSING OF X-RAY AND RADIO-ISOTOPE SCANNER IMAGES. ROBERT H. SELZER, CALIFORNIA INST. OF TECHNOLOGY, JET PROPULSION LAB., PASADENA, CALIFORNIA. PRESENTED AT INSTRUMENT SOCIETY OF AMERICA, ANNUAL BIOMEDICAL SCIENCES INSTRUMENTATION SYMPOSIUM, 7TH, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, MAY 1969, PROCEEDINGS, VOL. 6, 1969. PP.225-234. MICROFICHE COPY.
VR-H8-30-000-00052*	APPLICATION OF PHOTOGRAMMETRY TO THREE-DIMENSIONAL GEODESY. HELMUT H. SCHMID, ESSA/COAST AND GEODETIC SURVEY, ROCKVILLE, MARYLAND. PUBLISHED IN EOS, VOL. 50, JAN. 1969. PP.4-12.
VR-H8-30-000-00053*	ESTIMATE OF CORRECTIONS FOR THE NONSIMULTANEITY OF MEASUREMENTS TO CORRELATIONS BETWEEN THE SPECTRAL INTENSITIES OF TERRESTRIAL RADIATION. A.I. LEBEDINSKIY, ET AL., USSR. PUBLISHED IN GEOMAGNETISM AND AERONOMY, VOL. 9, NO. 2, 1969. PP.169-173. MICROFICHE COPY.
VR-H8-30-000-00054*	MAGNETIC VARIATION SOUNDING USING THE SPACE DERIVATIVES OF THE FIELD. M.N. BERDICHEVSKII, USSR. PUBLISHED IN GEOMAGNETISM AND AERONOMY, VOL. 9, NO. 2, 1969. PP.299-301. MICROFICHE COPY.
VR-H8-30-000-00055*	THE CONNECTION OF METRICS OF VISUAL AND AUDIO SPACES FOR A METHOD OF TRANSFORMING AN IMAGE INTO SOUND. V.G. GRISHIN, USSR. VSESOYUZNAYA NAUCHNAYA SESSIYA, POSVYASHCHENNAYA DNYU RADIO, 220, 1966. SEKTSIYA BIONIKI. MICROFICHE COPY.
VR-H8-30-000-00056	DATA CATALOG OF SATELLITE AND ROCKET EXPERIMENTS. NSSDC 69-01. JANUARY 1969. NATIONAL SPACE SCIENCE DATA CENTER, NASA, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD.
VR-H8-30-000-00057	MANNED SPACE FLIGHT EXPERIMENT CATALOG LISTING, REVISION, MAY 1, 1969. BELLCOMM, INC., WASHINGTON, D.C.
VR-H8-30-000-00058	THE NIMBUS III USER'S GUIDE. THE NIMBUS PROJECT, GODDARD SPACE FLIGHT CENTER, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GREENBELT, MARYLAND, AND EDITED BY ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASSACHUSETTS. CONTRACT NUMBER NAS 5-10343.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00059	METEOROLOGICAL SATELLITES, COMMITTEE PRINT, COMMITTEE ON AERONAUTICAL AND SPACE SCIENCES, UNITED STATES SENATE, MARCH 29, 1962.
VR-H8-EJ-998-00060	KODAK EKTACHROME AEROGRAPHIC FILM (HIGH DEFINITION, ESTAR BASE, TYPE SO-121) TEST, REPORT NO. NASA TM X-58021, NOEL T. LAMAR, NASA MANNED SPACECRAFT CENTER, HOUSTON, TEXAS, JULY 1968
VR-H8-34-998-00061	GEMINI MIDPROGRAM CONFERENCE (INCLUDING EXPERIMENT RESULTS), REPORT NO. NASA SP-121, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS, FEBRUARY 1966.
VR-H8-30-000-00063*	COMPARISON OF TWO METHODS FOR THE COMBINATION OF SATELLITE AND GRAVIMETRIC DATA. SCIENTIFIC REPORT NO. 22, AFCRL-68-0386. RICHARD H. RAPP, OHIO STATE UNIVERSITY, RESEARCH FOUNDATION, COLUMBUS, OHIO. JULY 1968. CONTRACT NUMBER AF19(628)-5701. MICROFICHE COPY.
VR-H8-30-000-00064	RADAR BACK-SCATTER THEORIES FOR NEAR-VERTICAL INCIDENCE AND THEIR APPLICATION TO AN ESTIMATE OF THE LUNAR SURFACE ROUGHNESS. HARBHAJAN S. HAYRE AND RICHARD K. MOORE, UNIVERSITY OF NEW MEXICO, ENGINEERING EXPERIMENT STATION, ALBUQUERQUE, NEW MEXICO. JANUARY 1962. NASA GRANT NSG 129-61 STAR N62-11754.
VR-H8-30-000-00065	THE WORLD MAGNETIC SURVEY. NASA TN D-2109. JOHN P. HEPPNER, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. JAN. 1964 STAR N64-14984.
VR-H8-30-000-00067	OBSERVATIONS FROM THE NIMBUS 1 METEOROLOGICAL SATELLITE. NASA SP-89, WILBUR B. HUSTON, ET. AL, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. 1965 STAR N66-12130.
VR-H8-30-000-00068	SHORT GLOSSARY OF SPACE TERMS. NASA SP-1, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D. C. 1966. STAR N66-25785.
VR-H8-30-000-00069	SKY ILLUMINATION PHENOMENA, REPORT NO. B-64-42. PROF. C. HOFFMEISTER, ET. AL, SOVIET-BLOC, MOSCOW, USSR.
VR-H8-30-000-00070	THE COMPOSITION AND STRUCTURE OF THE TERRESTRIAL ATMOSPHERE, AFCRL-63-289, MARCEL NICOLET, PENNSYLVANIA STATE UNIVERSITY COLLEGE OF ENGINEERING, UNIVERSITY PARK, PENNSYLVANIA, MAY 1963. CONTRACT NUMBER AF19(604)-4563. STAR N63-14174.

SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00071	TRANSFORMATION OF THE EQUATIONS OF MOTION OF METEOROLOGY INTO ARBITRARY ORTHOGONAL COORDINATES. EUGENE M. LUKS, METEOROLOGICAL RESEARCH LAB. A.F. CAMBRIDGE RESEARCH LAB. OFFICE OF AEROSPACE RESEARCH, U.S.A.F., L.G. HANSCOM FIELD, MASS. NOVEMBER 1962. CONTRACT NUMBER AF19(604)7247. STAR N63-20732.
VR-H8-30-000-00072	WHAT ARE THE CAUSES OF THE ALEUTIAN ANTICYCLONES. B.W. BOVILLE, MCGILL UNIVERSITY, MONTREAL, CANADA. AUGUST 1962. STAR N64-10985.
VR-H8-30-000-00073	PHENOMENA IN THE UPPER ATMOSPHERE. REPORT NO. AID-P-63-116. N.P. DANILKIN, COMPILATION OF ABSTRACTS FROM SOVIET LITERATURE. OCTOBER 1963. STAR N64-11447
VR-H8-30-000-00074	PHENOMENA IN THE UPPER ATMOSPHERE. REPORT NO. AID-P-63-98. G.G. DZHEMILEV, ET. AL. PUBLISHED IN REVIEW OF SOVIET LITERATURE. JULY 1963
VR-H8-30-000-00075	METEOROLOGICAL DATA REPORT AEROBEE KP 3.2 REPORT NO. ERDA-61. MARJORIE MCLARDIE FOLDAL, U.S. ARMY ELECTRONICS RESEARCH AND DEVELOPMENT ACTIVITY, WHITE SANDS MISSILE RANGE NEW MEXICO. AUGUST 1963. STAR N63-21208.
VR-H8-30-000-00077	THE APPLICATION OF REMOTE SENSING INSTRUMENTS IN EARTH RESOURCE SURVEYS. PETER C. BADGLEY, NASA, WASHINGTON, D.C., LEO F. CHILDS, MSC, HOUSTON, TEXAS, AND WILLIAM L. VEST, IIT RESEARCH INSTITUTE, WASHINGTON, D.C. PRESENTED AT THE 36TH ANNUAL MEETING OF THE SOCIETY OF EXPLORATION GEOPHYSICISTS, NOVEMBER 1967, PAPER NO. G-23.
VR-H8-30-000-00078	NASA EARTH-SENSING SPACE FLIGHT EXPERIMENTS. PETER C. BADGLEY, ALDEN P. COLVOCORESSES AND CHARLES D. CENTERS, NASA EARTH RESOURCES SURVEY PROGRAM, WASHINGTON, D.C. FOR PRESENTATION AT THE ANNUAL MEETING OF THE AMERICAN SOCIETY OF PHOTOGRAMMETRY, MARCH 9, 1967.
VR-H8-30-000-00081	POTENTIAL EARTH RESOURCES APPLICATIONS OF THE APOLLO 6 (502 MISSION) PHOTOGRAPHY. JOHN L. KALTENBACH, NASA-MSC, EARTH RESOURCES DIVISION, HOUSTON, TEXAS. PUBLISHED IN SPIE, 13TH ANNUAL TECHNICAL SYMPOSIUM PROCEEDINGS, 19-23 AUGUST 1968, WASHINGTON, D.C., P 311-323.
VR-H8-30-000-00084	GEODETIC PARAMETERS FOR A 1966 SMITHSONIAN INSTITUTION STANDARD EARTH. SAO SPECIAL REPORT NO. 200, SECTION II, 5, P.185-190. EDITED BY CHARLES A. LUNDQUIST, AND GEORGE VEIS, SMITHSONIAN INSTITUTION, ASTROPHYSICAL OBSERVATORY, CAMBRIDGE, MASSACHUSETTS. STAR N67-35962.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00085	RADIOMETRIC EQUIPMENT ON THE COSMOS 41 SATELLITE. I.A. SAVENKO, ET. AL. MOSCOW STATE UNIVERSITY, INSTITUTE OF NUCLEAR PHYSICS, MOSCOW, USSR. REPRINTED IN TECHNOLOGY APPLICATION CENTER, UNIVERSITY OF NEW MEXICO, MAY 1965 P:889-891.
VR-H8-30-000-00086	CONTRIBUTIONS TO THE CCSPAR MEETING - MAY 1965. NASA TN D-3091, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. JULY 1966
VR-H8-30-000-00087	PROJECT GEMINI: A CHRONOLOGY. NASA SP-4002. JAMES M. GRIMWOOD, BARTON C. HACKER AND PETER J. VORZIMMER, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C. 1969.
VR-H8-30-000-00088	THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION TOPSIDE SOUNDER PROGRAM. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.1-15. REPORT NO. TMX-57738. L.J. BLUMLE, R.J. FITZENREITER, AND J.E. JACKSON GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFILM COPY.
VR-H8-30-000-00089	THE ORBITING SOLAR OBSERVATORY SPACECRAFT. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.15-21, REPORT NO. TMX-57738. E.P. DOLDER, O.E. BARTOE, J.C. LINDSAY, ET. AL., GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
VR-H8-30-000-00090	STEREO PHOTOGRAPHY OF THE ECHO II BALLOONS, NUMBER 9, 11, AND 13. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.22-31. REPORT NO. TMX-57738. SOL H. GENATT, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. MICROFICHE COPY.
VR-H8-30-000-00091	GROUND OPERATION EQUIPMENT FOR THE ORBITING ASTRONOMICAL OBSERVATORY. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.32-47. REPORT NO. TMX-57738. E.J. HABIB, AND A.G. FERRIS, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
VR-H8-30-000-00092	EXPLORATION OF THE ATMOSPHERE OF VENUS BY A SIMPLE CAPSULE. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.48-61. REPORT NO. TMX-57738. RUDOLF A. HANEL, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.



SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00093	THE ORBITING GEOPHYSICAL OBSERVATORIES. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.62-92. REPORT NO. TMX-57738. GEORGE H. LUDWIG, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00094	OPERATIONS WITH AN EXPERIMENTAL SATELLITE. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.93-104. REPORT NO. TMX-57738. D.G. MAZUR, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00095	RELAY. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.105-110. REPORT NO. TMX-57738. SIDNEY METZGER, AND ROBERT H. PICKARD, COMMUNICATIONS SATELLITE CORP., GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00096	RELAY I, SPACECRAFT PERFORMANCE. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.111-115. REPORT NO. TMX-57738. ROBERT H. PICKARD, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00097	RELAY, AN EXPERIMENTAL SATELLITE FOR TV AND MULTICHANNEL TELEPHONY COMMUNICATIONS. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.122-140. REPORT NO. TMX-57738. R. PICKARD, S. ROTH, AND J. KIESLING, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00098	TIROS OPERATIONS. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.141-145. REPORT NO. TMX-57738. ERNEST F. POWERS, GODDARD SPACE FLIGHT CENTER GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00099*	TIROS ACHIEVEMENTS. REPORT NO. TMX-57738. R.M. RADOS, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLISHED IN PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. II, SPACE TECHNOLOGY. PP.146-148. MICROFICHE COPY. STAR N66-32055.
NR-H8-30-000-00100*	THE ORBITING GEOPHYSICAL OBSERVATORIES. REPORT NO. TMX-57738. W.E. SCHULL, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLISHED IN PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. II, SPACE TECHNOLOGY. PP.160-167. MICROFICHE COPY. STAR N66-32056.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00101*	ARIEL I, THE FIRST INTERNATIONAL SATELLITE. REPORT NO. TMX-57738. GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLISHED IN PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. SPACE TECHNOLOGY, PP.160-167. MICROFICHE COPY, STAR N66-32063.
NR-H8-30-000-00102*	UNITED KINGDOM EXPERIMENTS. LANGMUIR PROBE FOR MEASUREMENT OF ELECTRON TEMPERATURE AND DENSITY. REPORT NO. TMX-57738. GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLISHED IN PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. II, SPACE TECHNOLOGY, PP.168-229. MICROFICHE COPY, STAR N66-32058.
NR-H8-30-000-00103*	A SMALL MULTIPURPOSE ROCKET PAYLOAD FOR IONOSPHERIC STUDIES. REPORT NO. TMX-57738. S.J. BAURER AND J.E. JACKSON, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLISHED IN PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. II, SPACE TECHNOLOGY, PP.230. MICROFICHE COPY, STAR N66-32059.
NR-H8-30-000-00104*	TELEMETRY DATA PROCESSING FOR THE ECCENTRIC ORBITING GEOPHYSICAL OBSERVATORY SATELLITE. REPORT NO. TMX-57738. E. HABIB, ET AL., GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLISHED IN PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. II, SPACE TECHNOLOGY, PP.242-250. MICROFICHE COPY. STAR N66-32060.
NR-H8-30-000-00105*	MATHEMATICAL ANALYSIS FOR THE ORIENTATION AND CONTROL OF THE ORBITING ASTRONOMICAL OBSERVATORY SATELLITE. REPORT NO. TMX-57738. P.B. DAVENPORT, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLISHED IN PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. II, SPACE TECHNOLOGY, PP.251-259. MICROFICHE COPY. STAR N66-32061.
NR-H8-30-000-00106	A PRECISION ENDLESS-LOOP MAGNETIC TAPE RECORDER FOR SPACE APPLICATIONS. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2. SPACE TECHNOLOGY, PP.260-271. R.C. FALWELL, K.W. STARK, AND A.F. WHITE, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00107	ANALYTICAL THEORY OF THE STRETCH YO-YO FOR DE-SPIN OF SATELLITES. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.272-282. JOSEPH V. FEDOR, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. 1963 MICROFICHE COPY.

SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00108	THE MRIR-PCM TELEMETRY SYSTEM: A PRACTICAL EXAMPLE OF MICRO-ELECTRONIC LOGIC DESIGN, PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. 2, SPACE TECHNOLOGY, PP.283-293. PAUL M. FEINBERG, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. 1963, MICROFICHE COPY.
VR-H8-30-000-00109	FINE POINTING CONTROL FOR THE ORBITING ASTRONOMICAL OBSERVATORY, PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. 2, SPACE TECHNOLOGY, PP.294-298. 1963. GORDON E. GRAHAM GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
VR-H8-30-000-00110	ADVANCED EARTH SENSOR DESIGN CONSIDERATIONS, PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.299-301. BARBARA K. LUNDE, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
VR-H8-30-000-00111	RELIABILITY VERSUS ACCURACY TRADEOFFS, PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.302-306. BARBARA K. LUNDE, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. 1963. MICROFICHE COPY.
VR-H8-30-000-00112	A RELIABLE EARTH SENSOR FOR ATTITUDE SENSING, PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.307-312. BARBARA K. LUNDE, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. 1963. MICROFICHE COPY.
VR-H8-30-000-00113	ANALYSIS OF THE DYNAMIC TESTS OF THE STRETCH YO-YO DE-SPIN SYSTEM, PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER, 1963. VOL. 2, SPACE TECHNOLOGY, PP.313-325. WILLIAM R. MENTZER, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
VR-H8-30-000-00114	A METHOD TO OPTIMIZE THE SOLAR CELL POWER SUPPLY FOR INTER-PLANETARY SPACECRAFT. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.326-335. GRADY B. NICHOLS, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
VR-H8-30-000-00115	A MAGNETIC CORE VOLTAGE-TO-FREQUENCY CONVERTER, PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.336-345. STEPHEN PAULL, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. 1963. MICROFICHE COPY.
VR-H8-30-000-00116	CHARACTERISTICS OF PASSIVE COMMUNICATION SATELLITES WITH LAMBERTIAN SURFACES, PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.346-356. HERBERT P. RAABE, GENERAL MILLS ELECTRONICS DIVISION. MICROFICHE COPY.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00117	DATA STORAGE FOR METEOROLOGICAL SATELLITES. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.357-362. W.I. SCHNEEBAUM AND R.A. STAMPFL, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00118	A MEDIUM-DATA-RATE DIGITAL TELEMETRY SYSTEM. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.363-367. MARJORIE R. TOWNSEND, PAUL M. FEINBERG AND JOHN G. LESKO, JR., GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00119	THE SOLAR POWER SUPPLY SYSTEM FOR THE ORBITING ASTRONOMICAL OBSERVATORIES. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.369-378. CARL J. WENZINGER, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND, HENRY CARLETON, MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA. MICROFICHE COPY.
NR-H8-30-000-00120	A LINEARIZED ANALYSIS AND DESIGN OF AN AUTOMATIC BALANCING SYSTEM FOR THE THREE-AXIS AIR BEARING TABLE. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.379-388. FELEX ZAJAC AND DAVID SMALL, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00121	VEHICLE TECHNOLOGY CONSIDERATIONS FOR A SOLAR PROBE. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.402-408. JOHN A. FOSCHETTI, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00122	ROCKET SOUNDINGS IN THE MESOSPHERE. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.425-442. WILLIAM NORDBERG, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00123	THE ROCKET-GRENADE EXPERIMENT. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.443-463. WILLIAM NORDBERG AND W. SMITH, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-30-000-00124	INVESTIGATION OF HF AND VHF ROCKET-BORNE SHROUD ANTENNAS. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER. VOL. 2, SPACE TECHNOLOGY, PP.464-471. G.H. SPAID AND J.R. WAGERMEYER, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-00-000-00125	A POSSIBLE METHOD OF CORRECTING LOW FREQUENCY RADIO OBSERVATIONS FOR IONOSPHERIC ABSORPTION. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.475-490, LARRY W. BROWN, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-00-000-00126	SCINTILLATION COUNTER TELESCOPE FOR CHARGE AND MASS IDENTIFICATION OF PRIMARY COSMIC RAYS, PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. 2, SPACE TECHNOLOGY, PP.491-496, D.A. BRYANT, G.W. LUDWIG, AND F.B. McDONALD, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. MICROFICHE COPY.
NR-H8-00-000-00127*	SPECTRALLY SELECTIVE PHOTODETECTORS FOR THE MIDDLE AND VACUUM ULTRAVIOLET. LAWRENCE DUNKELMAN, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.513-521. MICROFICHE COPY.
NR-H8-00-000-00128*	ULTRAVIOLET PHOTODETECTORS. LAWRENCE DUNKELMAN, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.522-531. MICROFICHE COPY.
NR-H8-00-000-00129*	MIDDLE ULTRAVIOLET PHOTOELECTRIC DETECTION TECHNIQUES. LAWRENCE DUNKELMAN, ET AL., GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.532-541. MICROFICHE COPY.
NR-H8-00-000-00130*	FAILURE PROBLEM WITH A RHENIUM MASS SPECTROMETER FILAMENT AND ITS SOLUTION. A.G. EUBANKS. GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.542-545. MICROFICHE COPY.
NR-H8-00-000-00131*	AN ATTITUDE CONTROL SYSTEM FOR THE ADVANCED ORBITING. PAUL G. FAHLSTROM, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.546-548. MICROFICHE COPY.
NR-H8-00-000-00132*	EXPERIMENTS FROM A SMALL PROBE WHICH ENTERS THE ATMOSPHERE OF MARS. R.A. HANEL, R.A. STAMPEL, ET AL., GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.549-562. MICROFICHE COPY.

SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER

DESCRIPTION

- VR-H8-30-000-00133\* PHYSICAL MEASUREMENTS FROM METEOROLOGICAL SATELLITES. R.A. HANEL, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.563-568. MICROFICHE COPY.
- VR-H8-30-000-00134\* IMAGE CONSTRUCTION FOR CONCAVE GRATINGS AT GRAZING INCIDENCE BY RAY TRACING. S.O. KASTNER AND J.M. NEUPERT, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.569-574. MICROFICHE COPY.
- VR-H8-30-000-00135\* A DETECTOR-ANALYZER FOR STUDING THE INTERPLANETARY PLASMA. K.W. OGILVIE, N. MCILWRAITH, ET AL., GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.575-582. MICROFICHE COPY.
- VR-H8-30-000-00136\* ATMOSPHERIC SAMPLING INSTRUMENTATION. NELSON W. SPENCER, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.583-586. MICROFICHE COPY.
- VR-H8-30-000-00137\* A MASS SPECTROMETER FOR AN AERONOMY SATELLITE. N.W. SPENCER AND C.A. REBER, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.587-589. MICROFICHE COPY.
- VR-H8-30-000-00138\* THE AUTOMATIC PICTURE TRANSMISSION (APT) TV CAMERA SYSTEM FOR METEOROLOGICAL SATELLITES. RUDOLF A. STAMPFL AND WILLIAM G. STROUD, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.590-598. MICROFICHE COPY.
- VR-H8-30-000-00139\* A VACUUM ULTRAVIOLET PHOTOIONIZATION DETECTOR. A.K. STOBER AND R. SCOLNIK, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.599-604. MICROFICHE COPY.
- VR-H8-30-000-00140\* ULTRAVIOLET OPTICAL PROPERTIES OF DIAMOND. W.C. WALKER AND J. OSANTOWSKI, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.605-610. MICROFICHE COPY.
- VR-H8-30-000-00141\* THE ULTRAVIOLET REFLECTION SPECTRUM OF CADMIUM SULFIDE. W.C. WALKER AND J. OSANTOWSKI, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.611-612. MICROFICHE COPY.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00142*	ACHIEVING SATELLITE RELIABILITY THROUGH ENVIRONMENTAL TESTS, JOHN C. NEW, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963, VOL. II, SPACE TECHNOLOGY, PP.722-733. MICROFICHE COPY
NR-H8-30-000-00143*	PUBLICATIONS OF GODDARD SPACE FLIGHT CENTER 1963. VOL. II, SPACE TECHNOLOGY. REPORT NO. TMX-57738. GODDARD SPACE FLIGHT CENTER, GREENBELT, MD.
NR-H8-30-000-00144	MANUAL OF PHOTOGRAPHIC INTERPRETATION. AMERICAN SOCIETY OF PHOTOGRAMMETRY, WASHINGTON, D.C. 1960.
NR-H8-30-000-00145	FUNDAMENTALS OF OPTICS. FRANCIS A. JENKINS AND HARVEY E. WHITE, UNIVERSITY OF CALIFORNIA, MCGRAW-HILL BOOK CO., 3D ED., 1957.
NR-H8-30-000-00147	NIMBUS II USERS GUIDE. THE NIMBUS PROJECT, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. PREPARED BY ARACON GEOPHYSICS CO., CONCORD, MASS., A DIVISION OF ALLIED RESEARCH ASSOCIATES, INC., JULY 1966. CONTRACT NUMBER NAS 5-10114.
NR-H8-30-000-00148	THE APPLICATIONS TECHNOLOGY SATELLITE METEOROLOGICAL DATA CATALOG. VOL. 1. JANUARY-JUNE 1967. ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. AND NASA/GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. OCTOBER 1967. CONTRACT NO. NAS 5-10343.
NR-H8-30-000-00149	APOLLO - SATURN 6 VERTICAL STEREO PHOTOGRAPHY CATALOG. RICHARD W. UNDERWOOD AND HERBER A. TIEDEMANN, NASA/MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. APRIL 1968
NR-H8-30-000-00150	GEMINI DISCIPLINARY SET CATALOGUES. COMPILED BY UNIVERSITY OF NEW MEXICO, TECHNOLOGY APPLICATION CENTER, ALBUQUERQUE, NEW MEXICO.
NR-H8-30-000-00151	GEMINI SYNOPTIC PHOTOGRAPHY CATALOG. COMPILED BY THE UNIVERSITY OF NEW MEXICO, TECHNOLOGY APPLICATION CENTER, ALBUQUERQUE, NEW MEXICO.
NR-H8-30-000-00152	CORRELATION MECHANICAL AND THERMAL OF THE LUNAR SURFACE, J.D. HALAJIAN AND J. REICHMAN, GRUMMAN AIRCRAFT ENGINEERING CORP., BETHPAGE, NEW YORK. REPRINT FROM ICARUS 10, P.179-196 (1969)

SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00153	POTENTIAL APPLICATIONS OF SATELLITE GEODETIC TECHNIQUES TO GEOSCIENCES. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C. 1968. NASA SP-158
VR-H8-30-000-00155	THE SCIENTIFIC REPORT OF THE ROCKWELL POLAR FLIGHT. NORTH AMERICAN ROCKWELL CORP., DOWNEY, CALIFORNIA. 1965. STAR N69-7486.
VR-H8-30-000-00159*	A SYSTEM FOR AUTOMATIC COLLECTION AND PROCESSING OF GEOMAGNETIC DATA IN DIGITAL FORM. FINAL SCIENTIFIC REPORT, FEB. 1965-FEB. 1969. AFRL-69-0269. GEORGE GUSTAFSSON, KIRUNA GEOPHYSICAL OBSERVATORY, SWEDEN. APRIL 1969. MICROFICHE COPY. STAR N70-12449.
VR-H8-WK-000-00160	WATER USE. PRINCIPLES AND GUIDELINES FOR PLANNING AND MANAGEMENT IN WISCONSIN. WISCONSIN CHAPTER, SOIL CONSERVATION SOCIETY OF AMERICA, MADISON, WISCONSIN
VR-H8-LE-000-00161	DESCRIPTION OF THE BRAZILIAN PROGRAM FOR REMOTE SENSING OF EARTH RESOURCES. TECHNICAL REPORT LAFE-90. J.B. MACHADO, CONSELHO NACIONAL DE PESQUISAS, COMISSAO NACIONAL DE ATIVIDADES ESPACIAIS, SAO JOSE DOS CAMPOS, SAO PAULO, BRAZIL. JULY 1969. STAR N70-11059
VR-H8-30-000-00165	ARIEL I. THE FIRST INTERNATIONAL SATELLITE. EXPERIMENTAL RESULTS. NASA SP-119. GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. 1966.
VR-H8-30-000-00166	A SURVEY OF ATTITUDE SENSORS FOR SPACECRAFT. NASA SP-145. NORMAN M. HATCHER, LANGLEY RESEARCH CENTER, LANGLEY STATION, HAMPTON, VIRGINIA. 1967
VR-H8-30-000-00167	DIGITAL FILTERING FOR OPTIMIZATION OF SIGNALS SUBMERGED IN NOISE. REPORT NO. TM-69-1033-2. S.Y. LEE, BELLCOMM, INC., WASHINGTON, D.C. OCTOBER 7, 1969.
VR-H8-30-000-00168	MAGNETIC TAPE RECORDING. SKIPWITH W. ATHEY, PH. D. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C. JANUARY 1966. CONTRACT NO. NASW-945. NASA SP-5038.
VR-H8-30-000-00169	BIBLIOGRAPHY OF ATMOSPHERIC OZONE TO 40 KM. ITS CONCENTRATION, DISTRIBUTION, METHODS OF DETECTION, AND RELATIONSHIP WITH OTHER METEOROLOGICAL PHENOMENA. REPORT NO. LA-3328-MS. BETTY S. JACKSON, LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO, OF THE UNIVERSITY OF CALIFORNIA, APRIL 1965. CONTRACT NO. W-7405-ENG. 36.



## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00170	ADVANCED TECHNIQUES FOR AEROSPACE SURVEILLANCE, AGARD CONFERENCE PROCEEDINGS NO. 29, NATO ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT, AGARD, 64 RUE DE ZARENNE, PARIS VII, FRANCE. (PROCEEDINGS OF THE 13TH SYMPOSIUM OF THE AVIONICS PANEL OF AGARD). 1968. STAR N68-33392.
NR-H8-30-000-00172	OBSERVATIONS OF THE EARTH'S RESOURCES, MONICA M. COLE, BEDFORD COLLEGE, UNIVERSITY OF LONDON. PUBLISHED IN PROCEEDINGS OF ROYAL SOCIETY A. VOL. 308, PP.173-182 (1968).
NR-H8-30-000-00177	A NUMERICAL LEAST-SQUARE METHOD FOR RESOLVING COMPLEX PULSE HEIGHT SPECTRA, NASA SP-3044, J.I. TROMBKA AND R.L. SCHMADEBECK, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD., 1968.
NR-H8-30-000-00178	THIS NEW OCEAN, A HISTORY OF PROJECT MERCURY, NASA SP-4201, LOYD S. SWENSON, ET. AL., NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C. 1966.
NR-H8-30-000-00179	PROCEEDINGS OF THE SECOND NATIONAL CONFERENCE ON THE PEACEFUL USES OF SPACE, NASA SP-8, PRESENTED IN SEATTLE, WASHINGTON, MAY 8-10, 1962. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C.
NR-H8-30-000-00180	PROCEEDINGS OF THE FOURTH NATIONAL CONFERENCE ON THE PEACEFUL USES OF SPACE, NASA SP-51, PRESENTED IN BOSTON, MASS. APRIL 29-MAY 1, 1964. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C.
NR-H8-30-000-00181	PROCEEDINGS OF THE CONFERENCE ON SPACE-AGE PLANNING, NASA SP-40, A PART OF THE THIRD NATIONAL CONFERENCE ON THE PEACEFUL USES OF SPACE, CHICAGO, MAY 1-9, 1963. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C.
NR-H8-30-000-00182	SPACE MEASUREMENTS SURVEY, INSTRUMENTS AND SPACECRAFT, OCTOBER 1957-MARCH 1965, NASA SP-3028, ELECTRO-OPTICAL SYSTEMS, INC., PASADENA, CALIFORNIA. 1966. CONTRACT NO. DA-49-146-XZ-100.
NR-H8-30-000-00183	ALL-UNION SCIENTIFIC METEOROLOGICAL CONFERENCE. SELECTED ARTICLES. YE. M. FEYGELSON, USSR. VOL. 6, 1963, PART I AND II. STAR N68-87851.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00186	PREDICTION OF GEOMAGNETIC ACTIVITY. REPORT NO. 61306. KENNETH MOE AND NANCY L. CROOKER, MCDONNELL DOUGLAS ASTRO-NAUTICS CO., WESTERN DIV., SANTA MONICA, CALIFORNIA. AUGUST 1969. CONTRACT NO. NAS8-30156
NR-H9-30-000-00187	COLOR TELEVISION IN SCIENCE AND ENGINEERING. REPORT NO. JPRS-47,231. B. ZHEBEL AND V. YERGANZHIYEV, MOSCOW, RUSSIA. PUBLISHED IN RADIO, MOSCOW. NO. 11, 1968. PP.33-34. STAR N69-17090.
NR-H9-30-000-00188	APPLICATIONS OF PERCEPTRONS TO PHOTOINTERPRETATION. SUMMARY REPORT. REPORT NO. VE-1446-G-3. CORNELL UNIVERSITY, CORNELL AERONAUTICAL LAB., INC., BUFFALO, N.Y. AUGUST 1963. CONTRACT NO. NONR3161(00).
NR-H9-30-000-00189	USSR ACHIEVEMENTS IN SPACE RESEARCH. FIRST DECADE IN SPACE, 1957-1967. ACADEMY OF SCIENCES, INSTITUTE OF THE HISTORY OF NATURAL SCIENCE AND TECHNOLOGY, MOSCOW, USSR. STAR N69-17187
NR-H9-30-000-00190	DENSITY DISCRIMINATION FOR IMAGE EVALUATION. FINAL REPORT. REPORT NO. RADG-TR-67-483. JOHN BOARDMAN AND LEON LESINSKI, TECHNICAL OPERATIONS, INC., BURLINGTON, MASS. OCTOBER 1967. CONTRACT NUMBER AF30(602)-3917. STAR X68-11719.
NR-H9-30-000-00191	ANALYTICAL AERO-TRIANGULATION. ZBIGNIEW SITEK, POLAND. REPRINTED FROM GEODETIC REVIEW, VOL. 37, NO. 9, 1965. PP.374-377. STAR X68-12094.
NR-H9-30-000-00192	IMAGE PROCESSING-ANALOG IMAGE PROCESSOR SUCCESSFULLY REMOVES IMAGE BLUR. W. SWINDELL, UNIVERSITY OF ARIZONA, OPTICAL SCIENCE CENTER, TUCSON, ARIZONA. PUBLISHED IN OPTICAL SCIENCES CENTER NEWSLETTER, JUNE-AUGUST, 1969. PP.122-123.
NR-H9-30-000-00195*	MULTILAYER FILTERS FOR THE REGION 0.8 TO 100 MICRONS. VOL. I - TEXT AND TABLES. FINAL SCIENTIFIC REPORT, NOVEMBER 1964 - MAY 1968. AFCRL-68-0496-(1). S.D. SMITH AND J.S. SEELEY, UNIVERSITY OF READING, READING, ENGLAND. MAY 1968. CONTRACT NUMBER AF61(052)-833. MICROFICHE COPY.
NR-H9-30-000-00196*	MULTILAYER FILTERS FOR THE REGION 0.8 TO 100 MICRONS. VOL. II - ILLUSTRATIONS. FINAL SCIENTIFIC REPORT, NOVEMBER 1964 - MAY 1968. AFCRL-68-0496-(11). S.D. SMITH AND J.S. SEELEY, UNIVERSITY OF READING, READING, ENGLAND. MAY 1968. CONTRACT NUMBER AF61(052)-833. MICROFICHE COPY.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-HB-30-000-00199*	ATMOSPHERIC TURBULENCE. REPORT NO. FTD-MT-24-45-69. V.I. TATARSKII, USSR. TRANSLATED FROM ZEMLYA I VSELENNAYA, VOL. 4, NO. 2, 1968. PP.43-46, MICROFICHE COPY. STAR N70-13553.
NR-HB-30-000-00200	MODULATION BY WATER WAVES OF RADAR RETURN AT VERTICAL INCIDENCE. TECHNICAL REPORT NO. 2, A.B. ABELING, ET. AL., GEORGIA INSTITUTE OF TECHNOLOGY, ENGINEERING EXPERIMENT STA. ATLANTA, GEORGIA. NOVEMBER 1966. CONTRACT NO. N62269-3112. STAR X67-15716.
NR-HB-30-000-00201	ANTARCTIC TEMPERATURE STUDIES UTILIZING HRIR DATA FROM NIMBUS I. WILLIAM OSCAR KERMAN, JR., AND DON DALE FRAME, U.S. NAVY DEPT., POSTGRADUATE SCHOOL, MONTEREY, CALIFORNIA. MAY 1966. STAR X67-12897.
NR-HB-30-000-00203	SPACE TECHNOLOGY. VOL. V. TELECOMMUNICATIONS. NASA SP-69. J.J. STIFLER, CALIFORNIA INSTITUTE OF TECHNOLOGY, JET PROPULSION LABORATORY, PASADENA, CALIFORNIA, 1966. CONTRACT NUMBER NSG-598.
NR-HB-30-000-00206	PROCEEDINGS OF THE FIFTH NATIONAL CONFERENCE ON THE PEACEFUL USES OF SPACE. HELD IN ST. LOUIS, MISSOURI, MAY 26-28, 1965. NASA SP-82. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C.
NR-HB-30-000-00210	AMERICAS NEXT DECADE IN SPACE. A REPORT FOR THE SPACE TASK GROUP. PREPARED BY THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. SEPTEMBER 1969.
NR-HB-30-000-00211	THE POST-APOLLO SPACE PROGRAM - DIRECTIONS FOR THE FUTURE. SPACE TASK GROUP REPORT TO THE PRESIDENT. SEPTEMBER 1969. WASHINGTON, D.C.
NR-HB-30-000-00212	RADIOMETRIC STANDARDS AND MEASUREMENTS. E.J. GILLHAM, NATIONAL PHYSICAL LABORATORY, TEDDINGTON, MIDDLESEX, ENGLAND. NOTES OF APPLIED SCIENCE, NO. 23.
NR-HB-30-000-00214	EXPLORING SPACE WITH A CAMERA. NASA SP-168. EDGAR M. CORTRIGHT, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C. 1968.
NR-HB-30-000-00215	LIGHT SOURCES FOR REMOTE SENSING SYSTEMS. NASA CR-854. M.W.P. CANN, IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS. AUGUST 1967. CONTRACT NO. NAS 8-20107. STAR N67-36490

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00216	REMOTE INFORMATION RETRIEVAL FACILITY. NASA CR-1318. REPORT NO. N-07-68-1. ROGER K. SUMMIT, LOCKHEED AIRCRAFT CORP., PALO ALTO, CALIFORNIA. APRIL 1969. CONTRACT NUMBER NASW-1454. STAR N69-23381.
VR-H8-30-000-00217	ULTRAVIOLET DAYGLOW AND STELLAR BRIGHTNESS MEASUREMENT FROM THE X-15 AIRCRAFT. NASA CR-1017. LOWELL R. DOHERTY, UNIVERSITY OF WISCONSIN, DEPARTMENT OF ASTRONOMY, MADISON, WISCONSIN. MARCH 1968. CONTRACT NUMBER NSG-618. STAR N68-19590.
VR-H8-30-000-00218	SURVEY OF DETECTORS AND DYNAMIC CALIBRATION METHODS FOR REMOTE SENSING SYSTEMS. NASA CR-751. G. JOHNSON AND A.J. MONTGOMERY, IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS. APRIL 1967. CONTRACT NO. NAS 8-20107. STAR N67-22779.
VR-H8-30-000-00221	CHARACTERISTICS AND USE OF X-15 AIR-DATA SENSORS. NASA TN D-4597. LANNIE D. WEBB, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, FLIGHT RESEARCH CENTER, EDWARDS, CALIFORNIA. JUNE 1968. STAR N68-25317.
VR-H8-30-000-00222*	EXPERIMENTAL USE OF RADIO INFORMATION FROM SATELLITES IN OPERATIONAL WORK. P.N. BELOV, AND YR. V. KURILOVA, USSR. TRANSLATION OF GIDROMETEOROLOGICHESKII NAUCHNO-ISSLEDOVATELSKII, USSR. TRUDY, NO. 26, 1968. PP.54-60. MICROFICHE COPY.
VR-H8-30-000-00223	SIGNIFICANT ACHIEVEMENTS IN SATELLITE GEODESY 1958-1964. NASA SP-94. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C. 1966.
VR-H8-30-000-00224	SELECTED PHOTOGRAPHIC TECHNIQUES. A COMPILATION. REPORT NO. NASA SP-5914 (D1). NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASH., D.C. 1968.
VR-H8-30-000-00225	ESSAI EN BALLON STRATOSPHERIQUE DUN ALTIMETRE EMPLOYANT UN DETECTEUR SEMICONDUCTEUR. REPORT NO. CEA-R-3516, LOUIS GILLY, CENTRE ETUDES NUCLEAIRES DE GRENOBLE, FRANCE. JUNE 1968. STAR N68-37201.
VR-H8-30-000-00226	SATELLITE MAPPING OF THE PACIFIC TROPICAL CLOUDINESS. JACOB BJERKNES, ET. AL., UNIVERSITY OF CALIFORNIA, DEPT. OF METEOROLOGY, LOS ANGELES, CALIFORNIA. PUBLISHED IN BULLETIN AMERICAN METEOROLOGICAL SOCIETY, VOL. 50, NO. 5, MAY 1969, PP.313-322.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-HB-30-000-00227	HIGH ALTITUDE RADIOMETRIC MEASUREMENTS OF CIRRUS. P.M. KUNH, ET. AL., ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, ESSA RESEARCH LAB, BOULDER, COLORADO. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 8, FEB. 1969. PP.147-154.
NR-HB-30-000-00228	GRIDDING SCHEME FOR APT SATELLITE PICTURES. WILLIAM D. BONNER, UNIVERSITY OF CALIFORNIA, DEPT. OF METEOROLOGY, LOS ANGELES, CALIFORNIA. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 74, NO. 18, 1969. PP.4581-4587.
NR-HB-30-000-00229	HIGH RESOLUTION BALLOONBORNE TEMPERATURE SENSOR. DENNIS W. CAMP, ET. AL., NASA/MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA. OCTOBER 1968. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 8, FEB. 1969, PP.159-166.
NR-HB-30-000-00230	MOSAIC-MIRROR CAMERA FOR MULTIPLE IMAGE, HIGH RESOLUTION PHOTOGRAPHY. A.I. CARSWELL, ET. AL., RCA VICTOR, LTD., RESEARCH LAB., MONTREAL, QUEBEC. JULY 1968. PUBLISHED IN APPLIED OPTICS, VOL. 8, NO. 3, MARCH 1969, PP.712-713.
NR-HB-30-000-00232*	A BIBLIOGRAPHY OF CERTAIN OPTICAL PROPERTIES OF LIQUID WATER IN THE INFRARED REGION (1-2000 MICRONS). NRL BIBLIOGRAPHY NO. 25. P.W. DAVIS, U.S. NAVAL RESEARCH LAB., WASHINGTON, D.C. AUGUST 1965. MICROFICHE COPY. STAR N66-13765.
NR-HB-30-000-00234*	EVALUATION OF MOTION-DEGRADED IMAGES. NASA SP-193. NASA/ OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C. A SEMINAR HELD IN CAMBRIDGE, MASS, DECEMBER 3-5, 1968. STAR N69-33322.
NR-HB-30-000-00238	SEPARABLE GRAPHS, PLANAR GRAPHS AND WEB GRAMMARS. TECHNICAL REPORT 69-96. UGO MONTANARI, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. AUGUST 1969. CONTRACT NUMBER NONR-5144(00).
NR-HB-30-000-00239*	THE PAX II PICTURE PROCESSING SYSTEM. TECHNICAL REPORT 68-67. JAMES W. SNIVELY, JR., AND EDGAR B. BUTT, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MD. MAY 1968. CONTRACT NO. NSG 398. STAR N68-28308.
NR-HB-30-000-00240	OPERATIONAL PROCESSING OF LOW RESOLUTION INFRARED (LRIR) DATA FROM ESSA SATELLITES. TECHNICAL REPORT NESC-42. LOUIS RUBIN, U.S. DEPT. OF COMMERCE, ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, WASHINGTON, D.C. FEBRUARY 1968.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00241	WEB GRAMMARS. TECHNICAL REPORT 69-84. JOHN L. PFALTZ AND AZRIEL ROSENFELD, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. JANUARY 1969. CONTRACT NUMBER NONR-5144(00).
NR-H8-30-000-00242	ON LIMIT PROPERTIES IN DIGITIZATION SCHEMES. TECHNICAL REPORT 69-95. UGO MONTANARI, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. JUNE 1969. CONTRACT NUMBER NONR-5144(00).
NR-H8-30-000-00243	MECHANICAL SCANNER FOR OFF-LINE PICTURE DIGITIZATION. TECHNICAL REPORT 69-92. ANDREW PILIPCHUK, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. APRIL 1969. CONTRACT NUMBER NSG 398.
NR-H8-30-000-00244	EDGE AND CURVE ENHANCEMENT IN DIGITAL PICTURES. TECHNICAL REPORT 69-93. AZRIEL ROSENFELD, RICHARD B. THOMAS, AND YUNG H. LEE, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. MAY 1969. CONTRACT NUMBER AT-(40-1)-3662.
NR-H8-30-000-00245	THE PAX II PICTURE PROCESSING SYSTEM. TECHNICAL REPORT 68-67. EDGAR B. BUTT AND JAMES W. SNIVELY, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. SEPTEMBER 1969. CONTRACT NUMBER NSG 398. (REVISED VERSION) MICROFICHE AND HARD COPY. STAR N69-40022.
NR-H8-30-000-00246	PICTURE PROCESSING BY COMPUTER. TECHNICAL REPORT 68-71. AZRIEL ROSENFELD, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. JUNE 1968. CONTRACT NUMBER NONR-5144(00). STAR N68-35317. MICROFICHE AND HARD COPY.
NR-H8-30-000-00247	STUDIES IN VISUAL TEXTURE MANIPULATION AND SYNTHESIS. 1. TECHNICAL REPORT 68-64. EDGAR B. BUTT, YUNG H. LEE AND AZRIEL ROSENFELD, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. FINAL REPORT FOR THE PERIOD 15 MAY 1967 - 14 MAY 1968. STAR N68-29373.
NR-H8-30-000-00248	AN APPLICATION OF CLUSTER DETECTION TO TEXT AND PICTURE PROCESSING. TECHNICAL REPORT 68-68. AZRIEL ROSENFELD, V.H. SCHNEIDER, ET AL., UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. JUNE 1968. CONTRACT NUMBER NONR 5144(00).

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00249	NOISE CLEANING IN BINARY-VALUED DIGITAL PICTURES USING PROPAGATION PROCESSES. TECHNICAL REPORT 69-91, AZRIEL ROSENFELD, CHAN M. PARK, ET AL., UNIVERSITY OF MARYLAND COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. MAY 1969. CONTRACT NUMBER AT-(40-1)-3662.
NR-H8-30-000-00250	CONNECTIVITY IN DIGITAL PICTURES. TECHNICAL REPORT 68-81, AZRIEL ROSENFELD, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. NOVEMBER 1968. CONTRACT NUMBER AT-(40-1)-3662.
NR-H8-30-000-00251	SYMPOSIUM ON THERMAL RADIATION OF SOLIDS, SAN FRANCISCO, MARCH 1964. NASA SP-55. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, SCIENTIFIC AND TECHNICAL INFORMATION DIV., WASHINGTON, D.C. 1965. STAR N65-26855.
NR-H8-30-000-00252*	LIGHT PROPAGATION IN A TURBULENT ATMOSPHERE. ATD REPORT NO. 67-52. ANDREY POLUSHKIN, AEROSPACE TECHNOLOGY DIV., LIBRARY OF CONGRESS, WASHINGTON, D.C. MARCH 1969. STAR N69-20974.
NR-H8-30-000-00253*	INVESTIGATION OF DUST IN THE UPPER ATMOSPHERE BY OPTICAL RADAR. NASA CR-99157. FINAL REPORT - JULY 1966-JULY 1968. GIORGIO FIOCCO, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, RESEARCH LAB. OF ELECTRONICS, CAMBRIDGE, MASS., NOVEMBER 1969. CONTRACT NO. NGR 22-009-(114). STAR N69-15833.
NR-H8-30-000-00254*	INVESTIGATION OF AIR-FLOW VELOCITY BY LASER BACKSCATTER. NASA TN D-4453. KENT R. BOURQUIN AND FRED H. SHIGEMOTO, AMES RESEARCH CENTER, MOFFETT FIELD, CALIFORNIA. APRIL 1968. STAR N68-20375.
NR-H8-30-000-00255*	THE RADIATION BALANCE OF THE EARTH-ATMOSPHERE SYSTEM FROM RADIATION MEASUREMENTS OF THE Nimbus II METEOROLOGICAL SATELLITE. NASA TN D-4589. EHRHARD RASCHKE, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. JULY 1968. STAR N68-28222.
NR-H8-30-000-00256*	PRODUCTION OF PHOTOGRAPHIC RELIEF IMAGES WITH ARBITRARY PROFILE. HOWARD M. SMITH, EASTMAN KODAK CO., ROCHESTER, NEW YORK. PUBLISHED IN JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 59, NO. 11, 1969, PP.1492-1494.
NR-H8-30-000-00258*	RESONANCE AMPLIFICATION AND VISCOUS ATTENUATION OF ATMOSPHERIC BOW WAVES. EUGENE M. WILKINS, LING-TEMCO-VOUGHT, INC., DALLAS, TEXAS, AND YOSHIKAZU SASAKI, UNIVERSITY OF OKLAHOMA, NORMAN, OKLAHOMA. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 74, NO. 23, OCTOBER 1969. PP.5418-5424.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00259	ELECTRICITY OF THE FREE ATMOSPHERE, (TRANSLATED FROM RUSSIAN) I.M. IMYANITCH AND E.V. CHUBARINA, MAIN ADMINISTRATION OF THE HYDROMETEOROLOGICAL SERVICE OF THE USSR COUNCIL OF MINISTERS, MAIN GEOPHYSICAL OBSERVATORY, 1967, STAR N68-10079.
NR-H8-30-000-00260	PUBLICATIONS OF THE JET PROPULSION LABORATORY, BIBLIOGRAPHY 39-10, JULY 1967 THROUGH JUNE 1969, JET PROPULSION LAB., CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA, OCTOBER 31, 1969.
NR-H8-30-000-00261	AUTOMATIC PATTERN RECOGNITION FOR CLINICAL MEDICINE, ROBERT S. LEDLEY, NATIONAL BIOMEDICAL RESEARCH FOUNDATION, SILVER SPRING, MARYLAND, PUBLISHED IN PROCEEDINGS OF THE IEEE, VOL. 57, NO. 11, NOV. 1969, PP.2017-2035.
NR-H8-30-000-00262	AN EXPERIMENT IN THE USE OF SATELLITE DATA FOR THE STUDY OF SECULAR VARIATIONS, G.I. KOLOMIYETSEVA AND L.O. TYURMINA, INSTITUTE OF TERRESTRIAL MAGNETISM, IONOSPHERE AND RADIO WAVE PROPAGATION, ACADEMY OF SCIENCES, USSR, PUBLISHED IN JOURNAL OF GEOMAGNETISM AND AERONOMY, VOL. 8(6), 1968, PP.863-866.
NR-H8-30-000-00263*	BIBLIOGRAPHY OF SOVIET PUBLICATIONS ON ROCKET AND SATELLITE INVESTIGATIONS OF THE UPPER ATMOSPHERE AND OUTER SPACE IN 1964, TRANSLATIONS OF THE RUSSIAN BIBLIOGRAPHY OF A REPORT PRESENTED AT COSPAR, 8TH, BUENOS AIRES, MAY 1965, PP.12-117, STAR N65-27664.
NR-H8-30-000-00264*	SCATTERING OF LIGHT IN A TURBID MEDIUM, NASA TT F-477, K.S. SHIFRIN, MAIN GEOPHYSICAL OBSERVATORY, VOYEYKOV, LENINGRAD, USSR, ENGLISH TRANSLATION 1968, CONTRACT NUMBER NASW-1496, STAR N68-22462.
NR-H8-30-000-00265*	THE APOLLO SPACECRAFT, A CHRONOLOGY, VOL. I, THROUGH NOV. 7, 1962, NASA SP-4009, IVAN D. ERTTEL AND MARY LOUISE MORSE, NASA/OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C., 1969.
NR-H8-30-000-00266*	THE INFERENCE OF THE CHARGE DISTRIBUTION IN THUNDERSTORMS FROM AIRBORNE MEASUREMENTS OF THE ELECTRIC FIELD, ELMER L. SCHUMAN, ATMOSPHERIC PHYSICS AND CHEMISTRY LABORATORY, ESSA RESEARCH LAB., BOULDER, COLORADO, PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 8, NO. 5, OCT. 1969, PP.820-824.



## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00267*	PROPAGATION OF CENTIMETER, MILLIMETER, AND SUB-MILLIMETER WAVES IN THE EARTH'S ATMOSPHERE, S.A. ZHEVAKIN, ET AL., USSR, TRANSLATED FROM IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII, RADIOFIZIKA (GORKI) VOL. 10, NO. 9/10, 1967. PP.1213-1243. MICROFICHE COPY, STAR N70-14862.
VR-H8-30-000-00268*	DAILY VARIATION OF COSMIC RAYS NEAR THE GEOMAGNETIC POLES. S.P. DUGGAL AND M.A. PCMERANTZ, BARTOL RESEARCH FOUNDATION OF THE FRANKLIN INSTITUTE, SWARTHMORE, PENNSYLVANIA. PRESENTED AT THE INTERNATIONAL CONFERENCE ON COSMIC RAYS, 8TH, JAIPUR, INDIA, DEC. 2-14, 1963 PROCEEDINGS. VOL. 2. MODULATION. PP.375-380.
VR-H8-30-000-00269*	FURTHER STUDIES IN THE COMBINATION OF GRAVIMETRIC AND SATELLITE DATA. REPORT NO. AFCRL-69-0249. RICHARD H. RAPP, DEPT. OF GEODETIC SCIENCE, OHIO STATE UNIVERSITY, COLUMBUS, OHIO, DECEMBER 1968. CONTRACT NO. AF19(628)-5701. MICROFICHE COPY. STAR N70-12554.
VR-H8-30-000-00270*	A STUDY OF GEMINI AND APOLLO PHOTOGRAPHY USERS. ROBERT W. JOSELYN, UNIVERSITY OF DENVER, INDUSTRIAL ECONOMICS DIV., DENVER, COLORADO. OCTOBER 1969. CONTRACT NUMBER NSR 06-004-063.
VR-H8-30-000-00271*	VERY LONG BASELINE INTERFEROMETRY. J.L. LOCKE, NATIONAL RESEARCH COUNCIL OF CANADA, RADIO AND ELECTRICAL ENGINEERING DIVISION. PUBLISHED IN SCIENCE JOURNAL, VOL. 5A, NO. 5. NOV. 1969. PP.41-46.
VR-H8-30-000-00272*	AIR PHOTOGRAPHY. CYRIL PECKHAM, ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN. PUBLISHED IN THE AERONAUTICAL JOURNAL OF THE ROYAL AERONAUTICAL SOCIETY, VOL. 73, JANUARY 1969. PP.9-19.
VR-H8-30-000-00273*	IMAGING OF OBJECTS VIEWED THROUGH A TURBULENT ATMOSPHERE. NASA CR-105397. TECHNICAL REPORT 469. JOHN C. MOLDON, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, RESEARCH LAB. OF ELECTRONICS. MARCH 1969. CONTRACT NO. DA 28-043-AMC-02536(E). STAR N69-35872.
VR-H8-30-000-00274*	MAGNETIC FIELDS - EARTH AND EXTRATERRESTRIAL. NASA SP-8017. MARK HARRIS AND ROBERT LYLE, EXOTECH INC., WASHINGTON, D.C. PREPARED FOR GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. MARCH 1969.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00275*	AEROSPACE RELATED TECHNOLOGY FOR INDUSTRY. THE PROCEEDINGS OF A TECHNOLOGY UTILIZATION CONFERENCE HELD AT LANGLEY RESEARCH CENTER, HAMPTON, VIRGINIA, MAY 1969. NASA SP-5075, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OFFICE OF TECHNOLOGY UTILIZATION, WASHINGTON, D.C.
NR-H8-30-000-00276*	SUPPLEMENT TO DATA CATALOG OF SATELLITE EXPERIMENTS NUMBER NSSDC 69-17. REPORT NO. NSSDC 69-17. NASA/GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. OCTOBER 1969.
NR-H8-30-000-00278*	AN ON-LINE CONVERSATIONAL INFORMATION STORAGE AND RETRIEVAL SYSTEM. A.L. SCHEIDEGGER, GENERAL ELECTRIC CO., APOLLO SYSTEMS DEPT., CAPE CANAVERAL, FLA. PRESENTED AT SPACE, TECHNOLOGY AND SOCIETY, CANAVERAL COUNCIL OF TECHNICAL SOCIETIES, SPACE CONGRESS, 6TH, COCOA BEACH, FLA., MARCH 1969 PROCEEDINGS, VOL. 1, PP.12-21 TO 12-30. MICROFICHE COPY.
NR-H8-30-000-00279*	AUTOMATIC RECOGNITION OF PATTERNS. (AVTOMATICHESKOYE OPOZNAVANIYE OBRAZOV). V.S. FAIN, FOREIGN TECHNOLOGY DIV., WRIGHT-PATTERSON AFB, OHIO. AKADEMIY NAUK, SSSR. VESTNIK, NO. 10, 1965. PP.127-129. STAR N68-20763. MICROFICHE COPY
NR-H8-30-000-00281*	ELECTRICAL STRUCTURE OF THE STRATOSPHERE AND MESOSPHERE. REPORT NO. AIAA TIS 3/13. WILLIS L. WEBB, ARMY ELECTRONICS COMMAND, WHITE SANDS, NEW MEXICO. MARCH 1969. MICROFICHE COPY.
NR-H8-30-000-00283*	AN ATLAS OF POLARIZATION FEATURES OF LIGHT REFLECTED BY DESERT SAND, WHITE SAND, AND SOIL. REPORT NO. AFRL-69-0005 REPORT NO. 3. C.R. NAGARAJA RAO AND HSI-SHU CHEN, UNIV. OF CALIFORNIA, DEPT. OF METEOROLOGY, LOS ANGELES, CALIFORNIA, JANUARY 1969. CONTRACT NO. F19628-67-C-0196. MICROFICHE COPY. STAR N69-33183.
NR-H8-30-000-00286*	A REVIEW OF THE IMAGE DISSECTOR METEOROLOGICAL CAMERAS AND A VIEW OF THEIR FUTURE. EDWARD W. KOENIG, ITT CORP, AEROSPACE OPTICAL DIV., FORT WAYNE, INDIANA AND GILBERT A. BRANCH-FLOWER, NASA/GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. CONTRACT NO. NAS 5-9619. PUBLISHED IN SPACE, TECHNOLOGY, AND SOCIETY - CANAVERAL COUNCIL OF TECHNICAL SOCIETIES, SPACE CONGRESS, 6TH, COCOA BEACH, FLA., MARCH 1969. PROC. VOL. 1, PP.16-23-16-41. MICROFICHE COPY.
NR-H8-30-000-00288*	MOLECULAR RADIATION OF THE UPPER ATMOSPHERE IN THE 3-8 MICRON SPECTRAL REGION. M.N. MARKOV, AKADEMIYA NAUK SSSR, FIZICHESKII INSTITUT, MOSCOW, USSR. PUBLISHED IN APPLIED OPTICS, VOL. 8, MAY 1969. PP.887-891, MICROFICHE COPY.

SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00291*	A LASER RADAR FOR ATMOSPHERIC STUDIES. PROJECT MIRO II. RELATORIO TECNICO LAFE-83. B.R. CLEMESHA, CONSELHO NACIONAL DE PESQUISAS, COMISSAO NACIONAL DE ATIVIDADES ESPACIAIS, LABORATORIO DE FISICA ESPACIAL, SAO PAULO, BRAZIL. JANUARY 1969. STAR N69-18940
VR-H8-30-000-00293*	SPREAD F AND IONOSPHERIC F-REGION IRREGULARITIES. JOHN R. HERMAN, LOWELL TECHNOLOGICAL INSTITUTE RESEARCH FOUNDATION, LOWELL, MASS. PUBLISHED IN LOWELL TECHNOLOGICAL INSTITUTE RESEARCH FOUNDATION JOURNAL, VOL. 2, NO. 2, PP.51-106, 1969. REPRINTED FROM REVIEWS OF GEOPHYSICS, VOL. 4, MAY 1966.
VR-H8-30-000-00294*	THE METEOR EXPERIMENTAL SPACE METEOROLOGICAL SYSTEM. NASA-CR-105628. I.M. ANDRONOV, ET AL., (USSR). PRESENTED AT UNITED NATIONS CONFERENCE ON THE EXPLORATION AND PEACEFUL USES OF OUTER SPACE, VIENNA, AUGUST 14-27, 1968. CONTRACT NUMBER NAS 5-14826. STAR N69-36672.
VR-H8-30-000-00295*	VARIATIONS IN ELECTRIC FIELDS FROM POLAR ORBITING SATELLITES. NASA-TM-X-63657. N.C. MAYNARD AND J.P. HEPPNER, NASA/GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. AUGUST 1969. STAR N69-37026.
VR-H8-30-000-00296*	THE ASSESSMENT OF PHOTOGRAPHIC MATERIALS AS DETECTORS OF LOW CONTRAST IMAGES. REPORT NO. WRE-TN-PD-96. F.A. DIXON, ET AL., WEAPONS RESEARCH ESTABLISHMENT, SALISBURY, SOUTH AUSTRALIA. NOVEMBER 1968. STAR N69-36338.
VR-H8-30-000-00297*	WEATHER THAT IS NOT VISIBLE FROM EARTH - HIGH-RESOLUTION TELEVISION PHOTOGRAPHY. NASA-CR-105643. N.F. VEL TISHCHEV, (USSR), PRESENTED AT UNITED NATIONS CONFERENCE ON THE EXPLORATION AND PEACEFUL USES OF OUTER SPACE, VIENNA, AUGUST 1968. STAR N69-36275.
VR-H8-30-000-00298*	WRESTAR-A. WEAPONS RESEARCH ESTABLISHMENT SMALL TARGET AIRCRAFT RECORDER TYPE A. REPORT NO. WRE-TN-PD-98. F. SPENCER, WEAPONS RESEARCH ESTABLISHMENT, SALISBURY, SOUTH AUSTRALIA. FEBRUARY 1969. STAR N69-36245.
VR-H8-30-000-00299*	THE ROLE OF MINOR ATMOSPHERE ADMIXTURES IN THE ABSORPTION OF INFRARED RADIATION. NASA-CR-105718. B.P. KOZYREV, (USSR). PUBLISHED IN FIZIKA ATMOSFERY I OKEANA, MOSCOW, VOL. 5, NO. 7, 1969. PP.738-744. STAR N69-3644P.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00300*	MODELS OF EARTH'S ATMOSPHERE (120 TO 1000 KM). NASA SP-8021. D.K. WEIDNER, ET AL., GEORGE C. MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA. MAY 1969.
NR-H8-30-000-00301*	AIRBORNE MEASUREMENTS OF THE IONOSPHERE. FINAL REPORT FOR PERIOD COVERING NOV. 1964 - OCT. 1967. REPORT NUMBER AFCRL-68-0106. K. BIBL, J. BUCHAU, ET AL., LOWELL TECHNOLOGICAL INSTITUTE RESEARCH FOUNDATION, LOWELL, MASS. JANUARY 1968. CONTRACT NUMBER AF19(628)-4801.
NR-H8-30-000-00302*	SPATIAL SURVEILLANCE OF NATURAL RESOURCES. LIBRARY BIBLIOGRAPHY NO. 308. COMPILED BY D.I. RAITT, ROYAL AIRCRAFT ESTABLISHMENT, FARNBOROUGH, ENGLAND. JANUARY 1969. STAR N69-22801.
NR-H8-30-000-00303*	METEOROLOGICAL SATELLITE INSTRUMENTATION AND DATA PROCESSING. NASA CR-103678. FINAL REPORT. VERNER E. SUOMI, AND ROBERT J. PARENT, UNIVERSITY OF WISCONSIN, DEPT. OF METEOROLOGY, MADISON, WISCONSIN. DECEMBER 1968. CONTRACT NUMBER NASW-65. STAR N69-33576.
NR-H8-30-998-00307*	MANUAL OF MULTIBAND PHOTOGRAPHY. PARTS I AND II. ROBERT N. COLWELL, WITH CONTRIBUTIONS BY PHILIP N. SLATER, EDWARD YOST AND SONORA WENDEROTH, UNIVERSITY OF CALIFORNIA, SCHOOL OF FORESTRY, BERKELEY, CALIFORNIA. JUNE 1968. CONTRACT NUMBER 05-003-080.
NR-H8-30-000-00308*	PERFORMANCE AND COST OF FLIGHT FUNCTIONS. F.L. CORTEN, INTERNATIONAL INSTITUTE FOR AERIAL SURVEY AND EARTH SCIENCES, DELFT, NETHERLANDS. PRESENTED AT INTERNATIONAL CONGRESS OF PHOTOGRAMMETRY, 11TH, LAUSANNE, SWITZERLAND, JULY 1968. PROCEEDINGS. MICROFICHE COPY.
NR-H8-30-000-00309*	EARTH RESOURCES SATELLITE SYSTEMS. D.W. KELLER, GENERAL ELECTRIC CO., SPACE DIV., VALLEY FORGE, PA. JULY 1969. PUBLISHED IN JOURNAL OF THE BRITISH INTERPLANETARY SOCIETY, VOL. 23, NO. 4, APRIL 1970. PP.257-274. MICROFICHE AND HARD COPY.
NR-H8-30-000-00310*	TECHNIQUES, EVALUATION AND APPLICATIONS OF AUXILIARY DATA IN AERIAL TRIANGULATION. H.G. JERIE, INTERNATIONAL INSTITUTE FOR AERIAL SURVEY AND EARTH SCIENCES, DELFT, NETHERLANDS. PRESENTED AT INTERNATIONAL CONGRESS OF PHOTOGRAMMETRY, 11TH, LAUSANNE, SWITZERLAND, JULY 1968. MICROFICHE COPY.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00311*	MICRO-MINI MEDIA. GILBERT E. STEGALL, NATIONAL WEATHER RECORDS CENTER, ASHEVILLE, N.C., PUBLISHED IN WORLD METEOROLOGICAL ORGANIZATION JOURNAL, 1969. PP.31-38, STAR N69-36587.
NR-H8-30-000-00313*	AUTOMATIC DISCRIMINATOR OF DISTORTED IMAGES. (OB ODNOM USTROISTVE AVTOMATICHESKOGO RAZLICHENIIA ISKAZHENNYKH IZOBRAZHENII) RUSSIAN TRANSLATION. V.K. POTOSKII, LENINGRADSKIY INSTITUT AVIATIONNOGO PRIBOROSTROENIIA, LENINGRAD, USSR. PUBLISHED IN PRIBOROSTROENIE, VOL. 12, NO. 6, 1969. PP.48-50. MICROFICHE COPY.
NR-H8-30-000-00314*	ELECTRONICALLY TUNABLE ACOUSTO-OPTIC FILTER. S.E. HARRIS, S.T.K. NIEH, ET AL., STANFORD UNIVERSITY, MICROWAVE LAB., STANFORD, CALIFORNIA. PUBLISHED IN APPLIED PHYSICS LETTERS, VOL. 15, NO. 10, NOVEMBER 1959, PP.325-326.
NR-H8-30-000-00315*	APPLICATIONS OF AMPLITUDE-MODULATED RETICLE TO IMAGE-ANGULAR-VELOCITY SENSING AND OTHER PURPOSES. SUTEO TUTUMI, KYOTO TECHNICAL UNIVERSITY, KYOTO, JAPAN. PUBLISHED IN ELECTRONICS AND COMMUNICATIONS IN JAPAN, VOL. 51-C, NO. 2, FEB. 1968. PP.100-108.
NR-H8-30-000-00316*	PARTICLE-SIZE DETERMINATION BY LOW-ANGLE LIGHT SCATTERING - NEW INSTRUMENTATION AND A RAPID METHOD OF INTERPRETING DATA. P.J. LIVESEY AND F.W. BILLMEYER, JR., RENSSELAER POLYTECHNIC INSTITUTE, DEPT. OF CHEMISTRY, TROY, N.Y. PUBLISHED IN JOURNAL OF COLLOID AND INTERFACE SCIENCE, VOL. 30, NO. 4, AUG. 1969. PP.447-472.
NR-H8-30-000-00317*	MERCURY CADMIUM TELLURIDE AS A 1-20UM WAVELENGTH INFRARED DETECTOR FOR SPACE APPLICATIONS. RICHARD D. PACKARD, NASA/ ELECTRONICS RESEARCH CENTER, CAMBRIDGE, MASS. PUBLISHED IN AIAA JOURNAL, VOL. 7, NO. 8, AUG. 1969. PP.1570-1573.
NR-H8-30-000-00322*	STUDY AND ANALYSIS OF POSITION DATA ACQUISITION TECHNIQUE FOR OVER-OCEAN AIR TRAFFIC CONTROL. FINAL REPORT. LYLE D. FILKINS, ET AL., UNIVERSITY OF MICHIGAN, INSTITUTE OF SCIENCE AND TECHNOLOGY, ANN ARBOR, MICHIGAN, DECEMBER 1963.
NR-H8-30-000-00328*	METHODS OF ESTIMATING INFRARED FLUX AND SURFACE TEMPERATURES FROM METEOROLOGICAL SATELLITES. D.G. WARK, ET AL., U.S. WEATHER BUREAU, WASHINGTON, D.C. PUBLISHED IN JOURNAL OF ATMOSPHERIC SCIENCES, VOL. 19, 1962. PP.369-384.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00329*	PHOTOCHROMICS. ZOLTAN J. KISS, PUBLISHED IN PHYSICS TODAY, VOL. 23, NO. 1, JAN. 1970. PP.42-49.
NR-H8-30-000-00330*	CLOUD AND TERRESTRAL ALBEDO DETERMINATION FROM TIROS SATELLITE PICTURES. J.W. CONOVER, AIR FORCE CAMBRIDGE RESEARCH LAB., BEDFORD, MASS. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 4, NO. 3, JUNE 1965. PP.378-386.
NR-H8-30-000-00331*	ON THE INFRARED TRANSMISSION THROUGH CIRRUS CLOUDS AND THE ESTIMATION OF RELATIVE HUMIDITY FROM SATELLITES. S. FRITX AND P. KRISHNA RAO, NATIONAL ENVIRONMENTAL SATELLITE CENTER, ESSA, WASHINGTON, D.C. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 6, DEC. 1967. PP.1088-1096.
NR-H8-30-000-00332*	IONOSPHERIC RESEARCH USING SATELLITES. ANNUAL SUMMARY REPORT, OCT. 1967-OCT. 1968. ARTHUR W. HUNTER AND RAYMOND F. KELLEHER, UNIVERSITY COLLEGE, DEPT. OF PHYSICS, NAIROBI, KENYA. NOV. 1968. CONTRACT NO. AF61(052)-909. STAR N69-37167.
NR-H8-30-000-00333*	EFFECT OF DISPARITY IN PHOTO SCALE AND ORIENTATION ON CHANGE DETECTION. REPORT NO. 206. C.L. KLINGBERG, C.L. ELWORTH, ET AL., THE BOEING CO., SEATTLE, WASHINGTON, JANUARY 1969. STAR N69-37752.
NR-H8-30-000-00335*	COMPARISON OF AIRBORNE AND GROUND BASED WEATHER RADARS. LESTER P. MERRITT, ESSA, NATIONAL SEVERE STORMS LABORATORY, NORMAN, OKLAHOMA. PUBLISHED IN APPLIED METEOROLOGY, VOL. 8, NO. 6, DEC. 1969. PP.963-974.
NR-H8-30-000-00338*	DETERMINATION OF INTEGRAL ELECTRON CONCENTRATION. (ОБ ОПРЕДЕЛЕНИИ ИНТЕГРАЛЬНОЙ ЭЛЕКТРОННОЙ КОНЦЕНТРАЦИИ) RUSSIAN TRANSLATION. M.D. FLIGEL, AKADEMY NAUK SSSR, INSTITUT ZEMNOGO MAGNETIZMA, IONOSFERY I RASPROSTRANENIIA RADIOVOLN, KRASNAYA PAKHRA, USSR. PUBLISHED IN GEOMAGNETIZM I AERONOMIJA, VOL. 9, NO. 4, 1969. PP.748-750. MICROFICHE COPY.
NR-H8-30-000-00340*	TELSTAR I. NASA SP-32. VOL. I THRU IV. NASA/GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. JUNE 1963, VOL. I - STAR N64-10868. JUNE 1963, VOL. II - STAR N64-10882. JUNE 1963, VOL. III - STAR N64-11079. DEC. 1965, VOL. IV (WITH A SUPPLEMENT ON TELSTAR II) - STAR N67-12301.
NR-H8-30-000-00342*	DATA CATALOG OF SATELLITE EXPERIMENTS, NO. NSSDC 69-17, SUPPLEMENT TO NSSDC 69-01, NATIONAL SPACE SCIENCE DATA CENTER, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. OCTOBER 1969.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00344*	INFRARED DETECTORS - SPECIAL INTEREST BIBLIOGRAPHY WITH ABSTRACTS. TECHNICAL REPORT RSC-05. RICHARD H. ARNOLD, TEXAS A + M UNIVERSITY, REMOTE SENSING CENTER, COLLEGE STATION, TEXAS. SEPTEMBER 1969.
NR-H8-30-000-00347*	CONNECTION BETWEEN ASCENDING TERRESTRIAL AND TROPOSPHERIC INFRARED RADIATION FLUX AND MEAN-ENERGY TEMPERATURE LEVELS. G.N. KOSTYANOV, USSR. PUBLISHED IN IZVESTIYA ACADEMY OF SCIENCES, USSR. ATMOSPHERIC AND OCEANIC PHYSICS, VOL. 1, 1965. PP.401-415.
NR-H8-30-000-00349*	A GENERALIZED CLUTTER COMPUTATION PROCEDURE FOR AIRBORNE PULSE DOPPLER RADARS. ALAN L. FRIEDLANDER AND LARRY J. GREENSTEIN, IIT RESEARCH INSTITUTE, CHICAGO, ILL. PUBLISHED IN IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, VOL. AES-6, NO. 1, JAN. 1970. PP.51-61.
NR-H8-3J-167-00350*	BALLOON-BORNE RADIO ALTIMETER. NADAV LEVANOY, UNIVERSITY OF WISCONSIN, SPACE SCIENCE AND ENGINEERING CENTER, MADISON, WISCONSIN. PUBLISHED IN IEEE TRANSACTIONS ON GEOSCIENCE ELECTRONICS, VOL. GE-8, NO. 1, JAN. 1970. PP.19-30.
NR-H8-30-000-00351*	SOME PROBLEMS OF THE EARTH'S MAGNETOSPHERE PHYSICS. A.I. ERSHKOVICH, G.A. SKURIDOV, ET AL., USSR, ACADEMY OF SCIENCES MOSCOW. PUBLISHED IN SPACE SCIENCE REVIEWS, VOL. 10, NO. 2, NOV. 1969. PP.262-290.
NR-H8-30-000-00353*	VISUALIZATION OF MOVABLE GASEOUS OBJECTS. CONTRIBUTION ON THE APPLICATION POSSIBILITIES OF SCHLIEREN METHODS AND HOLOGRAPHY TO HYPERSONIC PROCESSES IN FREE-FLIGHT FACILITIES. PI SMIGIELSKI, INSTITUT FRANCO-ALLEMAND DE RECHERCHES, ST. LOUIS, FRANCE. FEBRUARY 1969. MICROFICHE COPY. STAR N69-36109.
NR-H8-4R-000-00354*	INVENTARIO CAFEIRO - PESQUISA COM FOTOGRAFIAS AEREAS NAS REGIOES CAFEICULTORAS DO ESTADO DE SAO PAULO, A ESTE DE 48 GRADOS W. MINISTERIO DA INDUSTRIA E DO COMERCIO INSTITUTO BRASILEIRO DO CAFE, GRUPO EXECUTIVO DE RACIONALIZACAO DA CAFEICULTURA, SERVICO DE FOTOINTERPRETACAO. RIO DE JANEIRO, BRASIL, 1968.
NR-H8-30-000-00355*	GEOCEIVER - AN INTEGRATED DOPPLER GEODETIC RECEIVER. TECHNICAL MEMORANDUM TG-710 (REV.) T.A. STANSELL, W.A. BOURGUIGNON, ET AL., THE JOHNS HOPKINS UNIVERSITY, APPLIED PHYSICS LAB., SILVER SPRING, MD. NOVEMBER 1968. STAR N69-26210.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00357*	VARIANCE SPECTRUM ANALYSIS. REPORT NO. 8. AMOS EDDY, CLAUDE E. DUCHON, ET AL., UNIVERSITY OF TEXAS, ATMOSPHERIC SCIENCE GROUP, AUSTIN, TEXAS. MARCH 1968.
VR-H8-30-000-00358*	THE U.M.-BENDIX SCINTILLATION CAMERA. W. LESLIE ROGERS, ET AL., BENDIX AEROSPACE SYSTEMS DIV., ANN ARBOR, MICHIGAN. PUBLISHED IN BIOMEDICAL SCIENCES INSTRUMENTATION, VOL. 6, 1969, PP.248-255.
VR-H8-30-000-00359*	DIRECT MEASUREMENTS OF THE EARTH'S GRAVITATIONAL POTENTIAL USING A SATELLITE PAIR. MILO WOLFF, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS. PUBLISHED IN GEOPHYSICAL RESEARCH, VOL. 74, NO. 22, OCT, 1969, PP.5295-5300.
VR-H8-30-000-00360*	COMPUTATION OF TOPSIDE IONOGRAMS FROM N(H) PROFILES. NASA TN D-5052. LAWRENCE COLIN, KWOK-LONG CHAN, ET AL., AMES RESEARCH CENTER, MOFFETT FIELD, CALIF. APRIL 1969. STAR N69-23557.
VR-H8-30-000-00361*	A TECHNIQUE TO INFER ATMOSPHERIC TEMPERATURE FROM HORIZON RADIANCE PROFILES. NASA TN D-5068. THOMAS B. MCKEE, RUTH I. WHITMAN, ET AL., LANGLEY RESEARCH CENTER, LANGLEY STATION, HAMPTON, VA. FEBRUARY 1969. STAR N69-19024.
VR-H8-30-000-00362*	OPTICAL PROCESSING OF RADIONUCLIDE IMAGES. ROBERT N. BECK, DEPT. OF RADIOLOGY, ARGONNE CANCER RESEARCH HOSPITAL, CHICAGO, ILL. PUBLISHED IN BIOMEDICAL SCIENCES INSTRUMENTATION, VOL. 6, 1969. PP.241-247.
VR-H8-30-000-00363*	INFRARED HOLOGRAPHY AT 10.6UM. JAY S. CHIVIAN, ET AL., LING-TEMCO-VOUGHT, INC., DALLAS, TEX. PUBLISHED IN APPLIED PHYSICS LETTERS, VOL. 15, NO. 4, AUG. 1969. PP.123-125.
VR-H8-30-000-00364*	THE SEMI-ANNUAL VARIATION IN THE UPPER ATMOSPHERE - A REVIEW. G.E. COOK, MINISTRY OF TECHNOLOGY, ROYAL AIRCRAFT ESTABLISHMENT, FARNBOROUGH, HANTS, ENGLAND. PUBLISHED IN ANNALES DE GEOPHYSIQUE, TOM. 25, FASC. 2, APR.-JUNE 1969. PP.451-469.
VR-H8-30-000-00365*	OPTICAL RESTORATION OF IMAGES BLURRED BY ATMOSPHERIC TURBULENCE USING OPTIMUM FILTER THEORY. J.L. HORNER, CONDUCTION CORP., ANN ARBOR, MICHIGAN. PUBLISHED IN APPLIED OPTICS, VOL. 9, NO. 1, JAN. 1970. PP.167-171.
VR-H8-30-000-00366*	EFFECT OF A SUDDEN CHANGE IN TERRAIN HEIGHT ON THE THREE-DIMENSIONAL LOW-LEVEL AIR FLOW, AS ESTIMATED FROM TETROOM FLIGHTS. W.H. MOECKER, ET AL., AIR RESOURCES LAB., ESSA, SILVER SPRING, MD. PUBLISHED IN MONTHLY WEATHER REVIEW, VOL. 97, NO. 12, DEC. 1969. PP.845-849.



## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00367*	A DUAL-PURPOSE SCHLIEREN SYSTEM. T.G.L. SHIRTCLIFFE, DEPT. OF PHYSICS, VICTORIA UNIVERSITY OF WELLINGTON, NEW ZEALAND. PUBLISHED IN JOURNAL OF SCIENTIFIC INSTRUMENTS (JOURNAL OF PHYSICS E) SERIES 2, VOL. 2, NO. 11, NOV. 1969. PP.963-966.
NR-H8-30-000-00368*	SYMPOSIUM ON THE THEORY AND MEASUREMENT OF ATMOSPHERIC TURBULENCE AND DIFFUSION IN THE PLANETARY BOUNDARY LAYER. ALBUQUERQUE, NEW MEXICO, DEC. 5-7, 1967. SANDIA LABORATORY, ALBUQUERQUE, NEW MEXICO. MAY 1968. STAR N69-35102 AND N69-35115.
NR-H8-30-000-00369*	SCATTER PROPAGATION OF RADIO WAVES. PART I AND II. AGARD CONFERENCE PROCEEDINGS NO. 37. NORTH ATLANTIC TREATY ORGANIZATION, ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT. PAPERS PRESENTED AT THE SYMPOSIUM OF ELECTRO-MAGNETIC WAVE PROPAGATION COMMITTEE OF THE AVIONICS PANEL OF AGARD, 14TH, SANDEFJORD, NORWAY, AUG. 1968. PART I, STAR N69-22576, PART II, STAR N69-22605.
NR-H8-30-000-00370*	RADIATION FROM NONISOTHERMAL GASES. GILBERT N. PLASS, TEXAS A + M UNIVERSITY, DEPT. OF PHYSICS, COLLEGE STATION, TEXAS. REPRINTED FROM APPLIED OPTICS, VOL. 6, NO. 11, NOV. 1967. PP.1995-1999.
NR-H8-30-000-00371*	INFLUENCE OF PARTICLE SIZE DISTRIBUTION ON REFLECTED AND TRANSMITTED LIGHT FROM CLOUDS. GEORGE W. KATTAWAR AND GILBERT N. PLASS, TEXAS A + M UNIVERSITY, DEPT. OF PHYSICS, COLLEGE STATION, TEXAS. REPRINTED FROM APPLIED OPTICS, VOL. 7, NO. 5, MAY 1968. PP.869-878.
NR-H8-30-000-00372*	INFRARED CLOUD RADIANCE. GEORGE W. KATTAWAR AND GILBERT N. PLASS, TEXAS A + M UNIVERSITY, DEPT. OF PHYSICS, COLLEGE STATION, TEXAS. REPRINTED FROM APPLIED OPTICS, VOL. 8, NO. 6, JUNE 1969. PP.1169-1178.
NR-H8-30-000-00373*	THE USE OF CLOUD-TYPE STATISTICS IN THE DESIGN OF EARTH VIEWING SENSORS. J.R. GREAVES AND P.E. SHERR, ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. JAN. 1970. PRESENTED AT THE 8TH AEROSPACE SCIENCE MEETING OF THE AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS. NEW YORK, N.Y. JAN.19-21, 1970. AIAA PAPER NO. 70-196.
NR-H8-30-000-00374*	INVESTIGATION OF ATMOSPHERIC ABSORPTION FOR REMOTE SENSING APPLICATIONS. FINAL REPORT, NO. 01427-1-F, S.R. DRAYSON, UNIVERSITY OF MICHIGAN, COLLEGE OF ENGINEERING, ANN ARBOR, MICHIGAN. MAY 1969. CONTRACT NUMBER E-71-68(N). STAR N70-10292.

SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-HB-30-000-00375*	DYNAMIC STRUCTURE OF THE LOWER ATMOSPHERE. RESEARCH AND DEVELOPMENT TECHNICAL REPORT ECOM-67G6-F. J.A. BUSINGER, A.S. FRISCH AND K.H. BERGMAN, UNIVERSITY OF WASHINGTON, DEPT. OF ATMOSPHERIC SCIENCES, SEATTLE, WASHINGTON. AUGUST 1968.
VR-HB-30-000-00376*	REMOTE SENSING ATMOSPHERIC OZONE USING THE 9.6 MICRON REGION. NASA TM-X-63733. C. PRABHAKARA, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. SEPT. 1969. STAR N70-11240.
VR-HB-30-000-00377*	INFRARED AND VISUAL RADIATION MEASUREMENTS FROM TIROS III. RAYMOND WEXLER, ARACON GEOPHYSICS CO., CONCORD, MASS. PUBLISHED IN APPLIED OPTICS, VOL. 3, NO. 2, FEB. 1964. PP.215-220
VR-HB-30-000-00378*	WORLD-WIDE CLOUD COVER DISTRIBUTIONS FOR USE IN COMPUTER SIMULATIONS. FINAL REPORT JAN. 1967 - JAN. 1968. NASA CR-61226. PAUL E. SHERR, ARNOLD H. GLASER, JAMES C. BARNES AND JAMES H. WILLAND, ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. JUNE 1968. CONTRACT NO. NAS 8-21040. STAR N68-32282
VR-HB-30-000-00379*	COMPUTER PROCESSING OF SATELLITE PICTURES. TECHNICAL MEMORANDUM NESCTM-3. C.L. BRISTOR, ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, WASHINGTON, D.C. APRIL 1968.
VR-HB-EJ-998-00387*	EARTH OBSERVATIONS FROM BALLOONS. PUBLISHED IN AMERICAN SOCIETY OF PHOTOGRAMMETRY, SYMPOSIUM, WASHINGTON, D.C. FEB. 1969, PROCEEDINGS.
VR-HB-EJ-114-00388*	DISTRIBUTION OF WATER VAPOR IN THE STRATOSPHERE AS DERIVED FROM SETTING SUN ABSORPTION DATA. D.G. MURCRAY, ET AL., UNIVERSITY OF DENVER, DENVER, COLORADO. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 74, NO. 23, OCT. 1969. PP.5369-5373.
VR-HB-30-000-00389*	PLANIMETRIC MAP COMPILATION WITH TRIMETROGON PHOTOGRAPHS. CHAPTER 3G1, BOOK 3. TOPOGRAPHIC INSTRUCTIONS OF THE UNITED STATES GEOLOGICAL SURVEY, TOPOGRAPHIC DIVISION.
VR-HB-30-000-00390*	NACHRICHTEN AUS DEM KARTEN-UND VERMESSUNGSWESEN. REIHE 1, DEUTSCHE BEITRAGE UND INFORMATIONEN, HEFT NR. 40. CARTOGRAPHIC AND GEODETIC SURVEYING REPORTS. SERIES 1, GERMAN CONTRIBUTIONS AND INFORMATION NO. 40, 1969. INSTITUT FUER ANGEWANDTE GEODAESIE, WEST GERMANY. STAR N69-38375.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00391*	CONFERENCE NUMERICAL TOPOGRAPHIC DATA AND OTHER NEW MAP PRODUCTS, FORT BELVOIR, VIRGINIA, MAY 1966, DEPARTMENT OF THE ARMY, OFFICE OF CHIEF ENGINEERS, WASHINGTON, D.C. STAR X68-82414.
NR-H8-30-000-00392*	LASER GLASS. F.W. QUELLE, OFFICE OF NAVAL RESEARCH, BOSTON, MASS. PUBLISHED IN NAVAL RESEARCH REVIEWS, VOL. 23, NO. 2, FEB. 1970. PP.24-26.
NR-H8-30-000-00393*	IMAGES FROM ANNULAR TEMPERATURES, F. GORI, ET AL., UNIVERSITY OF ROME, ITALY. PUBLISHED IN PHYSICS LETTERS. VOL. 31A, NO. 3, FEB. 1970. PP.131-132.
NR-H8-30-000-00394*	MODELS OF THE TRAPPED RADIATION ENVIRONMENT. VOLUME I, INNER ZONE PROTONS AND ELECTRONS. NASA SP-3024-VOL. I, 1966 JAMES I. VETTE, AEROSPACE CORP., EL SEGUNDO, CALIFORNIA. CONTRACT NO. AF 04(695)-469. STAR N66-16054.
NR-H8-30-000-00395*	MODELS OF THE TRAPPED RADIATION ENVIRONMENT. VOLUME II, INNER AND OUTER ZONE ELECTRONS. NASA SP-3024-VOL. II, 1966 JAMES I. VETTE, ET AL., AEROSPACE CORP., EL SEGUNDO, CALIF. CONTRACT NO. AF 04(695)-469. STAR N66-35685.
NR-H8-30-000-00396*	MODELS OF THE TRAPPED RADIATION ENVIRONMENT. VOLUME III, ELECTRONS AT SYNCHRONOUS ALTITUDES. NASA SP-3024-VOL. III, 1967 JAMES I. VETTE, ET AL., AEROSPACE CORP., EL SEGUNDO, CALIF. 1967. CONTRACT NO. AF 04(695)-469. STAR N67-19899.
NR-H8-30-000-00397*	MODELS OF THE TRAPPED RADIATION ENVIRONMENT. VOLUME IV, LOW ENERGY PROTONS. NASA SP-3024-VOL. IV, JOSEPH H. KING, AEROSPACE CORP., EL SEGUNDO, CALIF. 1967. STAR N67-36447.
NR-H8-30-000-00398*	MODELS OF THE TRAPPED RADIATION ENVIRONMENT. VOLUME V, INNER BELT PROTONS. NASA SP-3024-VOL. V, JAMES P. LAVINE, WOLF RESEARCH AND DEVELOPMENT CORP., WEST CONCORD, MASS. AND JAMES I. VETTE, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. STAR N69-28911.
NR-H8-30-000-00409*	INTRODUCTION TO HOLOGRAPHY. REPORT NO. OAR-68-0015. CAPT. MELVIN C. WATKINS, AF RES. OFFICE OF AEROSPACE RESEARCH, ARLINGTON, VA. OFFICE OF AEROSPACE RESEARCH MONOGRAPHS, NO. 5, DECEMBER 1968.
NR-H8-30-000-00410*	INDIVIDUAL AND TWO-MAN TEAM TARGET FINDING PERFORMANCE. REPORT NO. AMRL-TR-66-127, JOHN P. HORNSETH, AEROSPACE MEDICAL RESEARCH LAB., WRIGHT-PATTERSON AFB, OHIO. CONTRACT NO. AF33(615)-2032. PUBLISHED IN HUMAN FACTORS, VOL. 9, NO. 2, FEB. 1967. PP.39-43.

## SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-30-000-00411*	CHEMICAL FAR INFRARED SPECTROSCOPY. J.W. BRASCH, Y. MIKAWA, ET AL., BATTELLE MEMORIAL INSTITUTE, COLUMBUS, OHIO. PUBLISHED IN APPLIED SPECTROSCOPY REVIEWS, VOL. 1, NO. 2, 1968, PP.187-235.
NR-H8-30-000-00413*	THE STEADY STATE AND DYNAMIC HEAT TRANSFER FROM TURBULENCE SENSORS IN LIQUIDS. J.W. DELLEUR, G.H. TOEBES, ET AL., PURDUE UNIVERSITY, LAFAYETTE, INDIANA. PRESENTED AT INTERNATIONAL ASSOCIATION FOR HYDRAULIC RESEARCH. 12TH CONGRESS: FORT COLLINS, COLORADO. SEPT. 1967, PROCEEDINGS, VOL. 2, PP.227-236. PURDUE UNIV. ENGINEERING REPRINTS, CE 243.
NR-H8-30-000-00414*	SATELLITE GEODESY. A.G. MOURAD, BATTELLE MEMORIAL INSTITUTE COLUMBUS, OHIO. PUBLISHED IN HANDBOOK OF SOVIET SPACE-SCIENCE RESEARCH, GORDON AND BREACH SCIENCE PUBLISHERS, N.Y. CHAPTER 17, PP.421-430.
NR-H8-30-000-00415*	SATELLITE METEOROLOGY. R.C. BEHN AND R.A. DUFFEE. PUBLISHED IN HANDBOOK OF SOVIET SPACE-SCIENCE RESEARCH, GORDON AND BREACH SCIENCE PUBLISHERS, N.Y. 1968, CHAPTER 16, PP.393-420.
NR-H8-30-000-00474*	SIGNIFICANT ACCOMPLISHMENTS IN SCIENCE. GODDARD SPACE FLIGHT CENTER, 1968. NASA SP-195. PROCEEDINGS OF A SYMPOSIUM HELD AT GODDARD SPACE FLIGHT CENTER, JAN. 1969. STAR N69-38951.
NR-H8-30-000-00475*	AIAA EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MARYLAND, MARCH 1970. COLLECTION OF TECHNICAL PAPERS. AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS, NEW YORK, N.Y.
NR-H8-30-000-00476*	THE EVALUATION OF OPTICAL IMAGES. GEORGE C. HIGGINS AND FRED H. PERRIN. RESEARCH LABORATORIES, EASTMAN KODAK CO., ROCHESTER, N.Y. PUBLISHED IN PHOTOGRAPHIC SCIENCE AND ENGINEERING, VOL. 2, NO. 8, AUG. 1958. PP.66-76.
NR-H8-30-000-00488*	TECHNICAL DOCUMENTATION FOR THE MARK I MODEL OF THE LASER ABSOLUTE GRAVIMETER. NASA-TM-X-53832. REPORT NO. 53832. PAUL CRAVEN AND O.K. HUDSON, NASA/MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA. MAY 1969. STAR N70-17316.
NR-H8-30-000-00489*	OPERATION MANUAL FOR THE MARK I MODEL OF THE LASER ABSOLUTE GRAVIMETER. NASA-TM-X-53856. WILLIAM M. GREENE AND JAMES YARBROUGH, NASA/MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA. AUGUST 1969. STAR N70-17319.

SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H8-30-000-00490*	HOLOGRAPHIC OPTICAL DATA PROCESSING. NASA-TM-X-53961, RODNEY W. JENKINS, NASA/MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA, NOVEMBER 1969. STAR N70-17359.
VR-H8-30-000-00491*	COMPUTER PROGRAM FOR CROSSED-BEAM STUDIES OF CLEAR AIR TURBULENCE, PROGRAM DESCRIPTION. (MLTCOR) FINAL REPORT, MAY 1968-AUG. 1969. NASA-CR-61314. M.R. PHILLIPS AND A. WACHOWSKI, IIT RESEARCH INSTITUTE, CHICAGO, ILL. SEPT. 1969 CONTRACT NO. NAS8-2130C. STAR N70-12025.

**MULTISUBJECT**

**SECTION 09 TECHNICAL REPORTS**

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00001	PRELIMINARY REPORT ON A MULTISPECTRAL EXPERIMENT. ABRAHAM ANSON, SYSTEMS BRANCH, INTELLIGENCE DIVISION, USAEGIMRADA, FEBRUARY 18, 1965. CONTRACT NUMBER R-47-009-002. STAR N65-85566.
VR-H9-30-000-00002	MULTISPECTRAL EXPERIMENT NO. 2. ABRAHAM ANSON, SYSTEMS BRANCH, INTELLIGENCE DIVISION, USAEGIMRADA. AUGUST 3, 1965. CONTRACT NUMBER R-47-009-002.
VR-H9-30-000-00003	THE INVESTIGATION OF FLAME SPREADING OVER THE SURFACE OF IGNITING SOLID PROPELLANTS. ROBERT F. MCALEVY, III, PROFESSOR OF MECHANICAL ENGINEERING, STEVENS INSTITUTE OF TECHNOLOGY, HOBOKEN, NEW JERSEY, JANUARY 15, 1966. CONTRACT NO. NGR-31-003-014. STAR X69-90091
VR-H9-30-000-00005	SOME EMPIRICAL AND THEORETICAL INTERPRETATIONS OF MULTIPLE POLARIZATION RADAR DATA. R. D. ELLERMEIER, A. K. FUNG, AND D. S. SIMONETT, UNIVERSITY OF KANSAS, CRES REPORT 61-10, APRIL 14, 1966. CONTRACT NUMBER NSR-17-004-003. STAR N68-13437.
VR-H9-30-000-00007	FRESNEL ZONE PROCESSING OF SYNTHETIC APERTURE RADAR DATA. M. D. BUCHANAN AND R. K. MOORE, UNIVERSITY OF KANSAS, CRES REPORT 61-1. JANUARY 3, 1966. CONTRACT NUMBER NSR-17-004-003. STAR N66-21651.
VR-H9-30-000-00010	PLANE WAVE SCATTERING FROM A ROUGH SURFACE WITH CORRELATED LARGE AND SMALL SCALE ORDERS OF ROUGHNESS. H. S. WAYRE AND D. E. KAUFMAN, KANSAS STATE UNIVERSITY, DEPARTMENT OF ELECTRICAL ENGINEERING, MANHATTAN, KANSAS. MAY 1965. SUBCONTRACTED FROM THE UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CRES TECHNICAL REPORT 61-2. CONTRACT NO. NSR-17-004-003.
VR-H9-30-000-00022	SOME NEW UNSOLVED PROBLEMS IN CONNECTION WITH RANDOM PROCESSES OF INTEREST IN GEOPHYSICS. WILLARD J. PIERSON, JR., NEW YORK UNIVERSITY, COLLEGE OF ENGINEERING RESEARCH DIVISION, DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY. JANUARY 1962. CONTRACT NO. NONR-285(03).
VR-H9-30-000-00031	AUTOMATIC PROCESSING OF MULTI-SPECTRAL IMAGES. GEORGE W. DALKE, UNIVERSITY OF KANSAS, CRES REPORT NO. 61-16. AUGUST 1966. CONTRACT NO. NSR-17-004-003. STAR N67-18052.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00033	BACKSCATTER OF ELECTROMAGNETIC WAVES FROM A ROUGH LAYER. VIJAY R. KUMAR, S.H. DURRANI, AND W.W. KOEPEL, KANSAS STATE UNIVERSITY, DEPARTMENT OF ELECTRICAL ENGINEERING, MANHATTAN, KANSAS. TECHNICAL REPORT EE-TR-3, MAY 1966. CONTRACT NO. NSR-17-004-003.
VR-H9-30-000-00034	BACKSCATTER OF ULTRASONIC WAVES FROM A ROUGH LAYER. WU-SHI SHUNG, W. W. KOEPEL, AND S. H. DURRANI, KANSAS STATE UNIVERSITY, DEPARTMENT OF ELECTRICAL ENGINEERING, MANHATTAN, KANSAS. MAY 1966. CONTRACT NO. NSR-17-004-003. STAR N67-18976.
VR-H9-30-000-00036	THE GENERAL LINEAR EQUATION IN PREDICTION. PROFESSOR E. H. TIMOTHY WHITTEN. NORTHWESTERN UNIVERSITY REPORT NUMBER 8, DEPARTMENT OF GEOLOGY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. DECEMBER 15, 1966. CONTRACT NUMBER NGR-14-007-027.
VR-H9-30-000-00037*	THE EFFECT OF GROUND TEMPERATURE ON THERMAL RESOLUTION IN INFRARED IMAGERY. C.P. BASTUSCHECK, HRB-SINGER, INC., SCIENCE PARK, STATE COLLEGE, PA. PRESENTED AT THE AMERICAN SOCIETY OF PHOTOGRAMMETRY AND AMERICAN CONGRESS OF SURVEYING AND MAPPING, PORTLAND, OREGON. SEPT. 1969. PP.T-25.
VR-H9-30-000-00041	ORBITAL REMOTE SENSING AND NATURAL RESOURCES. DR. PETER C. BADGLEY, NASA AND WILLIAM L. VEST, IIT RESEARCH INSTITUTE, CHICAGO, ILL./NASA HDQ., CODE SAR WASHINGTON, D.C. JUNE 8, 1967, PUBLISH DATE SEPT. 19, 1966.
VR-H9-30-000-00045	POLARIZATION DEPENDENT RADAR RETURN FROM ROUGH SURFACES. K. KRISHNEN, W. W. KOEPEL, S. H. DURRANI, DEPARTMENT OF ELECTRICAL ENGINEERING, KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS. TECHNICAL REPORT EE-TR-2, JANUARY 1966. CONTRACT NOS. NSG-692 AND NSR 17-004-003. STAR N67-18974.
VR-H9-30-000-00052	A PROGRAM FOR THE RAPID SCREENING OF MULTIVARIATE DATA FROM THE EARTH SCIENCES AND REMOTE SENSING. NORTHWESTERN UNIVERSITY REPORT NUMBER 11. ROBERT G. GARRETT, DEPARTMENT OF GEOLOGY, NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS. JULY 1967. CONTRACT NO. NGR-14-007-027. STAR N67-33962.
VR-H9-30-000-00053*	PROBLEMS IN PHOTOMETRIC ANALYSIS OF IMAGERY FROM SATELLITES. JOSEPH OTTERMAN, TEL AVIV UNIVERSITY, RAMAT AVIV, ISRAEL. PRESENTED AT BRITISH INTERPLANETARY SOCIETY AND NATO, INTERNATIONAL-SUMMER SCHOOL ON EARTH RESOURCES SURVEY, CAMBRIDGE, ENGLAND, JULY 1969. STAR N70-11112. MICROFICHE COPY.



## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION N	3ER	DESCRIPTION
VR-H9-JD-000-00054*		A NEW TECHNOLOGY, SURVEY PHOTOGRAPHY AND FLIGHT, FRANCOIS CORTEN, LECTOR AT INTERNATIONAL INSTITUTE FOR AERIAL SURVEY AND EARTH SCIENCES, DELFT, NETHERLANDS, FEBRUARY 1969, STAR N70-10896, MICROFICHE COPY.
VR-H9-FH-000-00055*		A REMOTE SENSING SURVEY OF AREAS IN CENTRAL COASTAL LOUISIANA, PART I-DISCUSSION, FINAL REPORT, R. LUDLAM AND JACK R. VANLOPICK, TEXAS INSTRUMENTS INC., DALLAS, TEXAS, DECEMBER 1966, CONTRACT NO. N00014-66-C-0309, MICROFICHE COPY.
VR-H9-JD-000-00056*		USE OF AERIAL METHODS IN LANDSCAPE STUDIES, S.V. VIKTOROV, ET AL., USSR, 1959, MICROFICHE COPY, STAR N70-20494.
VR-H9-JD-000-00060		RADAR AS A REMOTE SENSOR, CRES REPORT 61-7, R. K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, JANUARY 1966, CONTRACT NO. NSR-17-004-003, STAR N66-32761.
VR-H9-JD-000-00065		IONOSPHERIC EFFECTS ON 400 MC RADAR SIGNALS, CRES TECHNICAL REPORT NO. 61-15, H. UNZ, DEPARTMENT OF ELECTRICAL ENGINEERING, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS, SEPTEMBER 1966, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, CONTRACT NUMBER NSR 17-004-003, STAR N67-12277.
VR-H9-JJ-049-00066*		EDDY CORRELATION MEASUREMENTS OF SENSIBLE HEAT FLUX NEAR THE EARTHS SURFACE, M.L. WESELY, C.B. TANNER, ET AL., DEPT. OF SOIL SCIENCE, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN, PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 9, NO. 1, FEB, 1970, PP.45-50.
VR-H9-JD-000-00075*		ANISOTROPY IN REFLECTED SOLAR RADIATION, V.V. SALOMONSON, COLORADO STATE UNIVERSITY, FORT COLLINS, COLORADO, 1968, STAR N70-16735.
VR-H9-EJ-029-00078		A MEDIAL POINT TRANSFORMATION OF TWO-DIMENSIONAL DATA WITH APPLICATIONS TO DATA COMPRESSION AND NOISE REDUCTION, CRES REPORT NO. 118-1, IRVIN EDWARD YOUNGBERG, REMOTE SENSING LABORATORY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, AUGUST 1967, CONTRACT NO. NAS 9-7175, STAR N69-10484.
VR-H9-JD-000-00082		ADAPTIVE PATTERN RECOGNITION BY USING A PREDICTIVE MODEL IN CONSTRUCTION OF SIMILARITY SETS, CRES TECHNICAL REPORT 118-3, ROBERT HARALICK, REMOTE SENSING LABORATORY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, OCTOBER 1967, CONTRACT NOS, NSR 17-004-003 AND NAS 9-7175, STAR N69-32554

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00083	COMPUTER REDUCTION AND ANALYSIS OF AN INFRARED IMAGE. TECHNICAL REPORT 67-4, KEENAN LEE, REMOTE SENSING LABORATORY, GEOPHYSICS DEPARTMENT, STANFORD UNIVERSITY, STANFORD, CALIFORNIA. DECEMBER 31, 1967. CONTRACT NO. NGR-05-020-115. STAR A60-19332.
NR-H9-30-000-00084	*COMMENTS ON REMOTE SENSING. RICCARDO GIACCONI AND BERNARD HARRIS, AMERICAN SCIENCE AND ENGINEERING, INC., CAMBRIDGE, MASS. PUBLISHED IN IEEE TRANSACTIONS ON GEOSCIENCE ELECTRONICS, VOL. GE-7, NO. 4, OCT. 1969. PP.179-190.
NR-H9-30-000-00085	*IMAGE PROCESSING. AZRIEL ROSENFELD, UNIVERSITY OF MARYLAND, COMPUTER SCIENCE CENTER, COLLEGE PARK, MARYLAND. PUBLISHED IN SPACE/AERONAUTICS, VOL. 52, DEC. 1969. PP.48-55.
NR-H9-30-000-00086	*A DOUBLE BEAM INTERFEROMETER FOR THE MIDDLE INFRARED. R. HANEL, M. FORMAN, ET AL., NASA/GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLISHED IN APPLIED OPTICS, VOL. 8, NO. 10, OCT. 1969. PP.2059-2065.
NR-H9-30-000-00087	*SPACE SYSTEMS FOR EARTH RESOURCES INFORMATION. DONALD M. WALTZ, TRW SYSTEMS, REDONDO BEACH, CALIFORNIA. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO, OCTOBER 1969. PAPER AAS 69-584. MICROFICHE COPY.
NR-H9-30-000-00088	*A TRADEOFF STUDY IN SPACE GEODESY ALTIMETRY. EPHRIAM WEISS, RAYTHEON CO., EQUIPMENT DIV., SUDBURY, MASS. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO, OCTOBER 1969. PAPER AAS 69-604. MICROFICHE COPY.
NR-H9-30-000-00090	A MULTIBAND PHOTOGRAPHIC SYSTEM. BANGUN CHANG, NORTH AMERICAN ROCKWELL CORP., SPACE DIV., DOWNEY, CALIFORNIA. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO, OCTOBER 1969. PAPER AAS 69-592. MICROFICHE COPY.
NR-H9-30-000-00092	*EARTH RESOURCES SATELLITES - CAPABILITIES VERSUS REQUIREMENTS. ALAN J. STRATTON, NASA/OFFICE OF ADVANCED RESEARCH PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO, OCTOBER 1969. PAPER AAS 69-587. MICROFICHE COPY.
NR-H9-30-000-00095	*SIMULATING THE CONSEQUENCE OF CLOUD COVER ON EARTH-VIEWING SPACE MISSIONS. S.C. BROWN, NASA/MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIV., LAS CRUCES, NEW MEXICO, OCTOBER 1969. PAPER AAS 69-577. MICROFICHE COPY.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00102*	ANALYSIS OF DATA FROM REMOTE SENSING SYSTEMS. RICHARD F. PASCUCCI, RAYTHEON CO., ALEXANDRIA, VA., AND GARY W. NORTH, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO. OCTOBER 1969. PAPER AAS 69-575. MICROFICHE COPY.
NR-H9-30-000-00103*	SCATTERING AND REFLECTANCE OF LIGHT FROM AIRBORNE LASER SYSTEMS. DAVID G. COLLINS AND MICHAEL B. WELLS, RADIATION RESEARCH ASSOCIATES INC., FORT WORTH, TEXAS. JUNE 1968. CONTRACT NUMBER F19628-67-C-0298. MICROFICHE COPY.
NR-H9-3J-211-00104*	LIDAR-RADAR LOWER ATMOSPHERIC OBSERVATIONS. FINAL REPORT OCT. 67 - OCT. 68. WILLIAM VIEZEE AND JOHN OBLANAS, STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIFORNIA. NOV. 1968. CONTRACT NO. F19628-68-C-0021. MICROFICHE COPY.
NR-H9-30-000-00108	CHRONOLOGICAL CATALOG OF REPORTED LUNAR EVENTS. NASA TECHNICAL REPORT R-277. BARBARA M. MIDDLEHURST, UNIVERSITY OF ARIZONA, LUNAR AND PLANETARY LABORATORY, TUCSON, ARIZONA, JAYLEE M. BURLEY, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND, PATRICK MOORE, ARMAGH PLANETARIUM, ARMAGH, NORTHERN IRELAND, AND BARBARA L. WELTHER, SMITHSONIAN ASTROPHYSICAL OBSERVATORY, CAMBRIDGE, MASSACHUSETTS. JULY 1968. CONTRACT NUMBERS NSF GP-5940 AND NSF GP-6709.
NR-H9-3J-000-00109*	THE SIERRA DEMONSTRATION PROJECT LAND RESOURCE INVENTORY AND ENGINEERING SURVEYS. REPORT NO. ETR-7100-2. JOHN R. SWINNERTON, U.S. FOREST SERVICE, ARLINGTON, VIRGINIA. 1969.
NR-H9-30-000-00110	A STUDY OF EARTH RADAR RETURNS FROM ALOUETTE SATELLITE. CRES REPORT 37-1. R.C. CHIA, H.H. DOEMLAND, AND R.K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. APRIL 1967. CONTRACT NUMBER NSG-477. STAR N68-22044.
NR-H9-30-000-00111	THE OMNIDIRECTIONAL SCATTERING OF ACOUSTIC WAVES FROM ROUGH SURFACES WITH APPLICATION TO ELECTROMAGNETIC SCATTERING. CRES REPORT 48-4. BOWEN E. PARKINS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JUNE 1965. CONTRACT NUMBERS NSG-298, NSR 17-004-003, AND NATIONAL SCIENCE FOUNDATION GRANT GP-2259.
NR-H9-30-000-00112	SCATTERING AND DEPOLARIZATION OF ELECTROMAGNETIC WAVES BY ROUGH SURFACES. CRES REPORT 48-5. ADRIAN K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. NOVEMBER 1965. CONTRACT NUMBERS NSG-298 AND NATIONAL SCIENCE FOUNDATION GRANT GP-2259. STAR N68-10004.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00113	SCATTERING THEORIES AND RADAR RETURN. CRES REPORT 48-3. ADRIAN K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, MAY 1965. CONTRACT NUMBERS NSG-298 AND NATIONAL SCIENCE FOUNDATION GRANT GP-2259. STAR V68-10090.
VR-H9-30-000-00116	USE OF THE RADAR SCATTEROMETER IN AIRCRAFT AND SPACECRAFT RESOURCES PROGRAMS. TECHNICAL MEMORANDUM 118-7. R.K. MOORE UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. OCTOBER 1968. CONTRACT NUMBER NAS 9-7175.
VR-H9-30-000-00117	SURFACE PROFILING USING A RADAR INTERFEROMETER. TECHNICAL MEMORANDUM 61-9. JEROME BUTLER AND R.K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MARCH 1965. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00118	AUTOMATIC MEASUREMENTS OF TEXTURE AND DETECTION OF LINES IN A FLYING-SPOT SCANNER SYSTEM. TECHNICAL MEMORANDUM 61-33. GEORGE DALKE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. AUGUST 1966. CONTRACT NO. NSR 17-004-003.
VR-H9-30-000-00119	PHOTOGRAPHIC COLOR COMBINATION PROCEDURES AND EQUIPMENT AVAILABLE AT CRES. TECHNICAL MEMORANDUM 61-24. DWIGHT EGBERT, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JUNE 1966. CONTRACT NUMBER NSR 17-004-003. STAR X69-74558
VR-H9-30-000-00120	AUTOMATIC ACUTENESS MEASUREMENTS FOR MULTIPLE IMAGES. TECHNICAL MEMORANDUM 61-31. GEORGE DALKE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. AUGUST 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00121	PATTERN RECOGNITION PROBLEM. TECHNICAL MEMORANDUM 61-23. ROBERT HARALICK, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. AUGUST 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00122	CALCULATION OF TRISTIMULUS COEFFICIENT FOR THE CRES MULTI-COLOR DISPLAY. TECHNICAL MEMORANDUM 61-14. GEORGE W. DALKE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MAY 1965. CONTRACT NUMBER NSR 17-004-003.

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ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00124	POSSIBLE LUNAR ANALOGS FOR USE BY THE WATERWAYS EXPERIMENT STATION, VICKSBURG, MISSISSIPPI. TECHNICAL MEMORANDUM 61-11. DWIGHT BROWN, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. DECEMBER 1964. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00126	THE (3 X 3) MATRIX UNIT. TECHNICAL MEMORANDUM 61-22. F. WELTER, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MAY 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00127	ESTABLISHMENT OF THE CRITERION FOR DETERMINING THE PULSE REPETITION FREQUENCY, THE BEAM LENGTH, PULSE WIDTH AND PULSE LENGTH ON THE GROUND. TECHNICAL MEMORANDUM 61-6. J. BUTLER, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. OCTOBER 1964. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00129	SYNTHETIC APERTURE RADAR ACOUSTIC SIMULATOR. TECHNICAL MEMORANDUM 118-3. J. LANCE FROMME, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. DECEMBER 1967. CONTRACT NO. NAS 9-7175.
VR-H9-30-000-00130	LINE DRIVING AMPLIFIER. TECHNICAL MEMORANDUM 118-2. JOHN BRYANT, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. NOVEMBER 1967. CONTRACT NUMBER NAS 9-7175.
VR-H9-30-000-00131	ACOUSTIC SCATTERING FROM SURFACES WITH CONTROLLED WAVE SPECTRA. TECHNICAL MEMORANDUM 112-2. R.L. KNUCKEY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JUNE 1967. CONTRACT NUMBER N62306-67-C-0044.
VR-H9-30-000-00132	ACOUSTIC SCATTERING FROM SURFACES WITH CONTROLLED WAVE SPECTRA. TECHNICAL MEMORANDUM 112-1. R.L. KNUCKEY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MARCH 1967. CONTRACT NUMBER N62306-67-C-0044.
VR-H9-30-000-00133	MULTI-FREQUENCY ACOUSTICAL SIMULATION SYSTEM. TECHNICAL MEMORANDUM 61-2. MIKE BUCHANAN, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. SEPTEMBER 1964. CONTRACT NUMBER NSR 17-004-003.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00134	A METHOD OF ANALYZING NRL FLIGHT RADAR RETURN, TECHNICAL MEMORANDUM 61-3, J.W. ROUSE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. SEPTEMBER 1964. CONTRACT NUMBER NSR 17-004-003.
NR-H9-30-000-00135	SYNTHETIC APERTURE POWER REQUIREMENTS, TECHNICAL MEMORANDUM 61-8, R.K. MOORE AND JEROME BUTLER, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. NOVEMBER 1964, REVISED JULY 1967. CONTRACT NUMBER NSR 17-004 003.
NR-H9-30-000-00136	INITIAL DESIGN CONSIDERATIONS FOR THE MULTI-COLOR DISPLAY, TECHNICAL MEMORANDUM 61-5, G.W. DALKE, J.E. RATHKE, AND J.W. ROUSE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. DECEMBER 1964. CONTRACT NUMBER NSR 17-004-003.
NR-H9-30-000-00137	SYNTHETIC APERTURE ANTENNA. TECHNICAL MEMORANDUM 61-13. JOHN ROUSE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MAY 1965. CONTRACT NUMBER NSR 17-004-003.
NR-H9-30-000-00138	RANGE ERROR STATISTICS FOR SPLIT-GATE ALTIMETER: PART I, SQUARE LAW DETECTION. TECHNICAL MEMORANDUM 112-3. HAN L. LEE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. APRIL 1968. CONTRACT NUMBER N62306-67-C-0044.
NR-H9-30-000-00139	MODIFICATIONS MADE ON PHOTOVOLT 520-A DENSITOMETER. TECHNICAL MEMORANDUM 61-15. MIKE BUCHANAN, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MAY 1965. CONTRACT NUMBER NSR 17-004-003.
NR-H9-30-000-00140	ON THE FEASIBILITY OF IMAGING RADAR ON SMALL SPACECRAFT. TECHNICAL MEMORANDUM 118-6. JOHN W. ROUSE, JR., UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JULY 1968. CONTRACT NUMBER NAS 9-7175.
NR-H9-30-000-00141	RANGE ERROR STATISTICS FOR SPLIT-GATE ALTIMETER: PART II, LINEAR DETECTION. TECHNICAL MEMORANDUM 112-4. HAN L. LEE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. APRIL 1968. CONTRACT NUMBER N62306-67-C-0044.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00142	IBM PAPER TAPE PUNCH PROGRAM FOR THE LGP-30 COMPUTER. TECHNICAL MEMORANDUM 61-56. IRVIN EDWARD YOUNGBERG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. AUGUST 1967. CONTRACT NUMBERS NSR 17-004-003 AND NAS 9-7175.
VR-H9-30-000-00143	ANALOG TO DIGITAL TO PAPER TAPE DATA PRINTER FOR THE LGP-30 COMPUTER. TECHNICAL MEMORANDUM 61-57. IRVIN EDWARD YOUNGBERG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. AUGUST 1967. CONTRACT NUMBERS NSR 17-004-003 AND NAS 9-7175.
VR-H9-30-000-00144	USE OF THE NUMERICAL TAXONOMY SYSTEM. TECHNICAL MEMORANDUM 61-54. ROBERT MARALICK, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JULY 1967. CONTRACT NUMBERS NSR 17-004-003 AND NAS 9-7175.
VR-H9-30-000-00145	THE 3-CHANNEL FLYING SPOT SCANNER. TECHNICAL MEMORANDUM 61-39. J.E. RATHKE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING RESEARCH DIVISION, LAWRENCE, KANSAS. AUGUST 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00146	THE TRI-COLOR DISPLAY UNIT. TECHNICAL MEMORANDUM 61-40. J.E. RATHKE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. SEPTEMBER 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00147	LGP-30 AUTOCORRELATION PROGRAM. TECHNICAL MEMORANDUM 61-55. IRVIN EDWARD YOUNGBERG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JULY 1967. CONTRACT NUMBERS NSR 17-004-003 AND NAS 9-7175.
VR-H9-30-000-00148	AN ANALOG TO DIGITAL TO PAPER TAPE CONVERTER. TECHNICAL MEMORANDUM 61-44. JESS BETLACK, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. APRIL 1966. CONTRACT NO. NSR 17-004-003.
VR-H9-30-000-00149	DESIGN CONSIDERATIONS FOR A FLYING SPOT SCANNER SYSTEM. TECHNICAL MEMORANDUM 61-56. J.E. RATHKE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. NOVEMBER 1966. CONTRACT NUMBER NSR 17-004-003.

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ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00150	THE CRES DATA HANDLING SYSTEM. TECHNICAL MEMORANDUM 61-37. J.E. RATHKE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. AUGUST 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00151	PHOTOMULTIPLIER, COMPENSATED VIDEO AMPLIFIER AND VIDEO AMPLIFIER CIRCUITS. TECHNICAL MEMORANDUM 61-38. J.E. RATHKE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. SEPTEMBER 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00152	PATTERN RECOGNITION AND SIMILARITY-A PHILOSOPHIC DISCUSSION. TECHNICAL MEMORANDUM 61-35. ROBERT HARALICK, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. AUGUST 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00153	PATTERN RECOGNITION AND SIMILARITY-A MATHEMATICAL DESCRIPTION. TECHNICAL MEMORANDUM 61-35A. ROBERT HARALICK, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. OCTOBER 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00154	UNFOCUSSED SYNTHETIC APERTURE ANTENNA RADAR POWER REQUIREMENTS. TECHNICAL MEMORANDUM 61-16. JOHN ROUSE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JULY 1965, REVISED JULY 1967. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00155	TECHNIQUE FOR PRODUCING A PSEUDO THREE DIMENSIONAL EFFECT WITH MONOSCOPIC RADAR IMAGERY. TECHNICAL MEMORANDUM 61-19. L.F. DELLWIG, H.C. MACDONALD, AND J.N. KIRK, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. DECEMBER 1965. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00156	REDUCTION OF LIKE-IMAGES TO SPACE CORRELATED DATA LISTS. TECHNICAL MEMORANDUM 61-21. G.W. DALKE AND M.O. MICHELICH, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MAY 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00157	RADAR LINEARS NOT RELATED TO GEOL. TECHNICAL MEMORANDUM 61-26. H.C. MACDONALD, ELLIOT GILLER, L.F. DELLWIG, AND NORMAN KIRK, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JULY 1966. CONTRACT NUMBER NSR 17-004-003.



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ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00158	IMAGE REPRODUCTION WITH THE COLOR TELEVISION RECEIVER, TECHNICAL MEMORANDUM 61-28. R.L. KNUCKEY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. AUGUST 1966. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00160	COLOR THEORY. TECHNICAL MEMORANDUM 61-4. GEORGE DALKE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. OCTOBER 1964. CONTRACT NUMBER NSR 17-004-003.
VR-H9-30-000-00167	FREQUENCY DEPENDENCE OF WAVES SCATTERED FROM ROUGH SURFACES. CRES REPORT NO. 48-6. ADRIAN K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. DECEMBER 1965. CONTRACT NUMBER NATIONAL SCIENCE FOUNDATION GRANT GP-2259.
VR-H9-30-000-00169	LITERATURE SURVEY ON SCATTERING FROM LAYERED MEDIA. CRES REPORT 48-7. TONY LEOVARIS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JULY 1965. CONTRACT NUMBERS NSG-298 AND NATIONAL SCIENCE FOUNDATION GRANT GP-2259.
VR-H9-30-000-00170	EXACT SOLUTION TO THE SCATTERING OF WAVES FROM A ROUGH SURFACE. CRES REPORT 48-1. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JUNE 1964. CONTRACT NUMBERS NSG-298 AND NATIONAL SCIENCE FOUNDATION GRANT GP-2259.
VR-H9-30-000-00171	SCATTERING OF ELECTROMAGNETIC WAVES FROM A SLIGHTLY ROUGH DIELECTRIC LAYER. CRES TECHNICAL REPORT 105-3. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MAY 1967. CONTRACT NUMBER NATIONAL SCIENCE FOUNDATION GRANT GK-875.
VR-H9-30-000-00172	SCATTERING AND DEPOLARIZATION OF ELECTROMAGNETIC WAVES BY A HORIZONTALLY WEAKLY INHOMOGENEOUS MEDIUM. CRES TECHNICAL REPORT 105-2. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MAY 1967. CONTRACT NUMBERS NATIONAL SCIENCE FOUNDATION GRANTS GK-875 AND GK-1153.
VR-H9-30-000-00173	WAVE PROPAGATION ACROSS AN IRREGULAR INTERFACE BETWEEN A HOMOGENEOUS AND AN INHOMOGENEOUS MEDIUM. CRES TECHNICAL REPORT 105-4. ADRIAN K. FUNG AND CHIEN-MIN TU, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JULY 1967. CONTRACT NUMBERS NATIONAL SCIENCE FOUNDATION GRANTS GK-875 AND GK-1153.

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NR-H9-30-000-00174*	THE EFFECT OF OBJECT MOTION IN FRAUNHOFER HOLOGRAPHY WITH APPLICATION TO VELOCITY MEASUREMENTS. NASA TN-D-5515, WILLIAM P. DOTSON, JR., NASA/MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. NASA/WASHINGTON, D.C. NOV. 1969. MICROFICHE COPY. STAR N69-40812.
NR-H9-30-000-00177	SYNTHETIC-APERTURE SIGNAL FILM QUALITY CALCULATIONS. TECHNICAL MEMORANDUM 61-43. JOHN ROUSE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. OCTOBER 1966. CONTRACT NUMBER NSR 17-004-003.
NR-H9-30-000-00178	MULTICOLOR PRESENTATION OF IMAGES WITH EDGE ENHANCEMENT. TECHNICAL MEMORANDUM 61-42. R.L. KNUCKEY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. OCTOBER 1966. CONTRACT NUMBER NSR 17-004-003.
NR-H9-30-998-00182	PRECISION MULTISPECTRAL PHOTOGRAPHY FOR EARTH RESOURCES APPLICATIONS. SERG-TR-04. SONORA WENDEROTH AND EDWARD YOST, SCIENCE ENGINEERING RESEARCH GROUP, LONG ISLAND UNIVERSITY, GREENVALE, NEW YORK. SEPTEMBER 1968. CONTRACT NUMBER NAS 9-7291. STAR N68-38156.
NR-H9-30-000-00185*	A FAR INFRARED SPECTROMETER. I.F. SILVERA, AND G. BIRNBAUM, NORTH AMERICAN ROCKWELL CORP., THOUSAND OAKS, CALIFORNIA. PUBLISHED IN APPLIED OPTICS, VOL. 9, NO. 3, MARCH 1970, PP.617-625.
NR-H9-30-000-00187*	A NOVEL MEANS OF THERMAL IMAGING. J.G. HIRSCHBERG, PHYSICS DEPT., UNIVERSITY OF MIAMI, CORAL GABLES, FLA. PUBLISHED IN APPLIED OPTICS, VOL. 9, NO. 3, MARCH 1970. PP.761-763.
NR-H9-30-000-00188*	COLOR PICTURE REPRODUCTION USING A HIGH-RESOLUTION TELEVISION SYSTEM. C.R. SMITH, ET AL., RCA DEFENSE ELECTRONIC PRODUCTS, PRINCETON, N.J. PUBLISHED IN JOURNAL OF THE SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS, VOL. 79, NO. 3, MARCH 1970. PP.218-222.
NR-H9-30-000-00198*	IMAGE MOTION STABILIZATION REQUIREMENTS FOR DYNAMIC VISUAL TASKS IN SPACE. REPORT NO. G-864 - NASA CR-73351. BARRY J. COHEN, JAMES T. MILLER, ET AL., MCDONNELL DOUGLAS CORP., ST. LOUIS, MISSOURI. JAN. 1969. CONTRACT NUMBER NAS2-9000. STAR N70-10866.

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## ACCESSION NUMBER

## DESCRIPTION

- NR-H9-3J-000-00201\* AERIAL PHOTOGRAPHY AND MULTISPECTRAL REMOTE SENSING FOR ENGINEERING SOILS MAPPING. PROGRESS REPORT ON PHASE B, REPORT NO. JHRP-13. MARC G. TANQUAY, PURDUE UNIVERSITY, LAFAYETTE, INDIANA. MAY 1969. MICROFICHE COPY. STAR N70-12905.
- NR-H9-3J-000-00202 REMOTE SENSING OF THE ENVIRONMENT. A TWO-WEEK SHORT COURSE. UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA. AUGUST 1968. MICROFICHE COPY. STAR N70-14072 THRU N70-14104.
- NR-H9-3J-000-00204\* A SELF-CALIBRATING RADIOMETER FOR THE MEASUREMENT OF THERMAL RADIATION MICROWAVES OF THE EARTH'S SURFACE FROM AN AIRCRAFT. JOHANN-PETER HACH. TECHNISCHE HOCHSCHULE, MUNCHEN, WEST GERMANY. 1968. MICROFICHE COPY. STAR N69-23741.
- NR-H9-3J-000-00216\* THE PACA-70 CAMERA, A DEVELOPMENT FOR A UNIQUE APPROACH TO PANORAMIC PHOTOGRAPHY. JAN GRIFFIDEN, AEROJET DELFT CORP, PLAINVIEW, LONG ISLAND, N.Y. AND VINCENT W. BALL, U.S. ARMY ELECTRONICS COMMAND, FORT MONMOUTH, N.J. PUBLISHED IN PHOTOGRAPHIC SCIENCE AND ENGINEERING, VOL. 12, NO. 1, JAN.-FEB. 1968. PP.53-56.
- NR-H9-4J-998-00219\* SOURCES OF ELECTROMAGNETIC RADIATION. RICHARD R. LEGAULT, UNIVERSITY OF MICHIGAN, WILLOW RUN LAB., ANN ARBOR, MICH. AIAA EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MD., MARCH 1970. AIAA PAPER NO. 70-287.
- NR-H9-3J-000-00220\* DATA MANAGEMENT SYSTEM DESIGN. JACK KING, TRW SYSTEMS GROUP, REDONDO BEACH, CALIFORNIA. PUBLISHED IN AIAA EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MD., MARCH 1970. AIAA PAPER NO. 70-321.
- NR-H9-4H-998-00221\* SOME EXPERIMENTAL RESULTS ON EARTH RESOURCES DATA TRANSMISSION COMEX 1969. S.D. DOREMAN, J.R. CASTALDO, ET AL., HUGHES AIRCRAFT CO., EL SEGUNDO, CALIFORNIA. PRESENTED AT AIAA EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MD., MARCH 1970, AND AIAA 3RD COMMUNICATIONS SATELLITE SYSTEMS CONFERENCE, LOS ANGELES, CALIF. APRIL 1970. AIAA PAPER NO. 70-328.
- NR-H9-3J-000-00223 NEAREST NEIGHBOR - A NEW NON-PARAMETRIC TEST USED FOR CLASSIFYING SPECTRAL DATA. STANFORD RSL TECH REPORT 68-3. PAUL SWITZER, ET. AL., STANFORD UNIVERSITY, REMOTE SENSING LABORATORY, STANFORD, CALIFORNIA. DECEMBER 30, 1968. CONTRACT NUMBER NAS 9-7313. STAR N69-31177

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ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00225	PRESENTATION OF BASIC MICROWAVE RADIOMETRY, SG P-6668, SPACE-GENERAL, A DIVISION OF AEROCET-GENERAL CORPORATION, EL MONTE, CALIFORNIA, NOVEMBER 2, 1967.
VR-H9-30-000-00228	FINAL REPORT ON SPOT EXPERIMENTS ON SKY BRIGHTNESS MEASUREMENTS IN THE VISIBLE SPECTRUM FOR THE STAFF PROGRAM, VOL. 2, (VOL. 1, SEPARATELY BOUND AS A CLASSIFIED DOCUMENT), RE-22, A.C. CONRAD AND R. KEZAR, EXPERIMENTAL ASTRONOMY LABORATORY, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS, JANUARY 1966, CONTRACT NUMBER AF04(694)327.
VR-H9-30-000-00232	FREQUENCY DEPENDENCE OF BACKSCATTER FROM ROUGH SURFACES. CRES TECHNICAL REPORT 133-4. JOHN W. ROUSE, JR., UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, SEPTEMBER 1968, CONTRACT NUMBERS NAS 9-7175, GK 1153, AND DAAK02-68-C-0089.
VR-H9-30-000-00233	SPECTRAL BEHAVIOR OF THE MARTIAN SURFACE: COMPOSITIONAL IMPLICATIONS. J.W. SALISBURY AND G.R. HUNT, SPACE PHYSICS LABORATORY, AIR FORCE CAMBRIDGE RESEARCH LABORATORIES, BEDFORD, MASSACHUSETTS.
VR-H9-30-000-00234	EFFECTS OF ATMOSPHERIC PATH ON AIRBORNE MULTISPECTRAL SENSORS. ROBERT HORVATH, JOHN G. BRAITHWAITE, AND FABIAN C. POLCYN, UNIVERSITY OF MICHIGAN, INSTITUTE OF SCIENCE AND TECHNOLOGY, WILLOW RUN LABORATORIES, ANN ARBOR, MICHIGAN, JANUARY 1969, CONTRACT NUMBER NSG 715/23-05-071.
VR-H9-30-000-00235	LUNAR RIVERS. J.E.M. ADLER AND J.W. SALISBURY, SPACE PHYSICS LABORATORY, AIR FORCE CAMBRIDGE RESEARCH LABS., BEDFORD, MASSACHUSETTS.
VR-H9-30-000-00236	REFLECTION PROPERTIES OF VENUS AT 3.8 CM. TECHNICAL REPORT 436, RICHARD P. INGALLS, ET. AL., LINCOLN LABORATORY, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, LEXINGTON, MASS, SEPTEMBER 6, 1968, CONTRACT NUMBER AF 19(628)-5167.
VR-H9-30-000-00237	AN ANALYSIS OF AIRBLAST LOADING OF STRUCTURES. ROBERT O. CLARK AND WAYNE M. MC MURTRY, UNIVERSITY OF NEW MEXICO, ALBUQUERQUE, NEW MEXICO, JANUARY 1969, AIR FORCE WEAPONS LABORATORY, KIRTLAND AIR FORCE BASE, NEW MEXICO, TECHNICAL REPORT NO. AFWL-TR-68-121, CONTRACT NUMBERS AF29(601)-6002 AND F29601-68-C-0009.
VR-H9-30-000-00240	INTERFERENCE FILTERS FOR MULTISPECTRAL PHOTOGRAPHY. TECHNICAL REPORT 25, D.B. MC KENNEY AND P.V. SLATER, UNIVERSITY OF ARIZONA, OPTICAL SCIENCES CENTER, TUCSON, ARIZONA, AUGUST 1, 1968, CONTRACT NUMBER NAS 9-7081, STAR N69-33735.

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ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00242	PANCHROMATIC AND POLYPANCHROMATIC RADAR. CRES. REPRINT'S. R.K. MOORE, J.W. ROUSE, JR., AND W.P. WAITE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. MARCH 1969. CONTRACT NUMBERS NAS 9-7175 AND DAAK02-68-C-0089.
NR-H9-30-000-00243	AERIAL PHOTOGRAPHIC ENERGY MODEL. TECHNICAL REPORT AFAL-TR-68-136. D.R. DAKIN, C.D. BARTKY, ET. AL., PHILCO-FORD CORPORATION, AERONUTRONICS DIVISION, NEWPORT BEACH, CALIF. JUNE 1968. CONTRACT NUMBER F33615-67-C-1359.
NR-H9-30-000-00249	FRAUNHOFER LINE DISCRIMINATOR. FINAL REPORT. ENGINEERING REPORT NO. 9149. PERKIN-ELMER, CORP., OPTICAL GROUP, NORWALK, CONNECTICUT. APRIL 15, 1968. CONTRACT NUMBER NAS 9-74 1-68-21919.
NR-H9-30-000-00251	FLIGHT TEST EVALUATION OF AUTONETICS X-BAND MAPPING RADIO SET MODEL R112A. A.H. KAZAKEVICIUS, AUTONETICS DIVISION, NORTH AMERICAN ROCKWELL CORPORATION, ANAHEIM, CALIFORNIA. APRIL 27, 1968.
NR-H9-EJ-998-00254	RADAR RETURN FROM THE GROUND. BULLETIN OF ENGINEERING NO. 59. RICHARD K. MOORE, UNIVERSITY OF KANSAS, SCHOOL OF ENGINEERING, LAWRENCE, KANSAS. 1969.
NR-H9-30-000-00257	TELEMETRY TRANSDUCER HANDBOOK, VOLUME 1. WADD TECHNICAL REPORT 61-67, U.S. AIR FORCE, AIR FORCE SYSTEMS COMMAND, WRIGHT-PATTERSON AIR FORCE BASE, OHIO. PREPARED BY RESEARCH DIVISION, RADIATION, INC., ORLANDO, FLORIDA. JULY 1961. CONTRACT NUMBER AF 33(616)-7466.
NR-H9-30-000-00266	BASIC INSTRUCTION IN PHOTO INTERPRETATION FOR CONSERVATIONISTS. JOE O. LAMMI, SCHOOL OF FOREST RESOURCES, NORTH CAROLINA STATE UNIVERSITY, RALEIGH, NORTH CAROLINA. PUBLISHED IN THE AMERICAN SOCIETY OF PHOTOGRAMMETRY. 1968 SEMI-ANNUAL MEETING, SAN ANTONIO, TEXAS. SEPT. 29-OCT. 3.
NR-H9-30-000-00269	NEW PHOTOGRAPHIC PROCESSES. JOHN S. ODELL, U.S. ARMY MAP SERVICE, WASHINGTON, D.C., PUBLISHED IN THE AMERICAN SOCIETY OF PHOTOGRAMMETRY. 1968 SEMI-ANNUAL MEETING, SAN ANTONIO, TEXAS. SEPT. 29-OCT. 3.
NR-H9-30-000-00270	*REFLECTIONS ON THIRTY YEARS OF IMAGE EVALUATION. G. BROCK, ITEK CORP., LEXINGTON, MASS. PUBLISHED IN PHOTOGRAPHIC SCIENCE AND ENGINEERING, VOL. 11, NO. 5, SEPT.-OCT. 1967. PP. 356-362.

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ACCESSION NUMBER	DESCRIPTION
VR-H9-EJ-998-00271	PROJECT: APOLLO 9. PRESS KIT. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C. FEBRUARY 23, 1969.
VR-H9-00-000-00272	APOLLO 5 MISSION REPORT. REPORT NO. MSC-PA-R-68-7. APOLLO 5 MISSION EVALUATION TEAM. NASA, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. MARCH 1968.
VR-H9-00-000-00273	PROCESS INSTRUMENTATION DEVELOPMENT. REPORT NO. ORNL-3782, PP.91-101. OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
VR-H9-EJ-998-00275	THE COLOR CHARACTERISTICS OF APOLLO 7 MISSION 70 MM PHOTOGRAPHY. SERG-TN-07. EDWARD YOST, ET. AL., SCIENCE ENGINEERING RESEARCH GROUP, LONG ISLAND UNIVERSITY, BROOKVILLE, NEW YORK. MAY 1969
VR-H9-00-000-00276	HINTS FOR EXPERIMENTERS, NASA SO 65. SERG-TN-05. EDWARD YOST AND SONORA VENDEROTH, LONG ISLAND UNIVERSITY, SCIENCE ENGINEERING GROUP, GREENVALE, NEW YORK.
VR-H9-00-000-00277	USE OF INTERFERENCE PASSBAND FILTERS WITH WIDE-ANGLE LENSES FOR MULTISPECTRAL PHOTOGRAPHY. D.B. MCKENNEY AND P.N. SLATE, UNIVERSITY OF ARIZONA, OPTICAL SCIENCES CENTER, TUCSON, ARIZONA. JUNE 1969. CONTRACT NUMBERS NAS 9-7001 AND FO 4695-67-C-0197.
VR-H9-00-000-00278	IMAGE-STABILIZED CAMERA. TECHNICAL REPORT AFAL-TR-69-81. U.S. AIR FORCE, AIR FORCE AVIONICS LABORATORY, WRIGHT-PATTERSON AIR FORCE BASE, OHIO. W.R. PRUNELLA, MARK SYSTEMS, INC., CUPERTINO, CALIFORNIA. FEBRUARY 17, 1969. CONTRACT NUMBER F33619-67-C-1648.
VR-H9-00-000-00279	PHOTOGRAMMETRIC CALIBRATION OF APOLLO FILM CAMERAS. INTER-AGENCY REPORT: ASTROGEOLOGY 15. W.T. BORGESON AND R.M. BATSON, U.S. DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, WASHINGTON, D.C. MARCH 1969. CONTRACT NUMBER T-65253G.
VR-H9-00-000-00281	INFRARED AND MULTISPECTRAL SENSING. MARVIN R. HOLTER, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, MARCH 1967. PUBLISHED IN BIOSCIENCE, V. 17, NO. 6, JUNE 1967, P 376-383.
VR-H9-00-000-00282	AN EXPERIMENTAL SELF REPAIRING COMPUTER. TECHNICAL REPORT 32-1356. A. AVIZIENIS, JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA. AUGUST 1968. CONTRACT NUMBER NAS 7-100. REPRINTED FROM THE PREPRINT BOOKLET E OF THE 1968 CONGRESS OF THE INTERNATIONAL FEDERATION FOR INFORMATION PROCESSING, EDINBURGH, SCOTLAND.

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ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00284	FORTRAN IV PROGRAMS TO DETERMINE SURFACE ROUGHNESS IN TOPOGRAPHY FOR THE CDC 3400 COMPUTER. NORTHWESTERN UNIVERSITY REPORT NO. 10. R.D. HOBSON, DEPARTMENT OF GEOLOGY, NORTHWESTERN UNIVERSITY, EVANSTON ILLINOIS, FEBRUARY 1967. CONTRACT NUMBER NGR-14-007-027, PUBLISHED AS COMPUTER CONTRIBUTION 14, STATE GEOLOGICAL SURVEY, UNIVERSITY OF KANSAS, LAWRENCE, AUGUST 1967. STAR N67-33245.
VR-H9-30-000-00290	IMAGING RADARS ON SPACECRAFT AS A TOOL FOR STUDYING THE EARTH. CRES REPORT 61-6. R.D. ELLERMEIER AND D.S. SIMONETT, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR 17-004-003. A PAPER PRESENTED TO THE INTERNATIONAL SYMPOSIUM ON ELECTROMAGNETIC SENSING OF THE EARTH FROM SATELLITES, MIAMI BEACH, FLORIDA, NOVEMBER 22-24, 1965.
VR-H9-30-000-00291	RADAR SCATTEROMETRY - AN ACTIVE REMOTE SENSING TOOL. CRES REPORT 61-11. R.K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KAN. CONTRACT NUMBER NSR-17-004-003. A PAPER PRESENTED TO THE FOURTH SYMPOSIUM ON REMOTE SENSING OF THE ENVIRONMENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, APRIL 1966. STAR N66-36083.
VR-H9-30-000-00297	FREQUENCY DEPENDENCE AND SURFACE ROUGHNESS. CRES TECHNICAL REPORT 48-17. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KAN. CONTRACT NUMBERS NSF GP-2259 AND GK-875. PUBLISHED IN PROCEEDINGS OF THE IEEE, V.54, NO.10, OCTOBER 1966, P 1482.
VR-H9-30-000-00298	SCATTERING AND DEPOLARIZATION OF EM WAVES FROM A ROUGH SURFACE. CRES TECHNICAL REPORT 48-13. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GP-2259 AND NSG-298. PUBLISHED IN PROCEEDINGS OF THE IEEE, V.54, NO.3, MARCH 1966, P 395-396.
VR-H9-30-000-00299	THE CORRELATION FUNCTION IN KIRCHOFF'S METHOD OF SOLUTION OF SCATTERING OF WAVES FROM STATISTICALLY ROUGH SURFACES. CRES TECHNICAL REPORT 48-14. A.K. FUNG AND R.K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GP-2259 AND NSG-298. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, V.71, NO.12, JUNE 15, 1966, P 2939-2943.

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ACCESSION NUMBER	DESCRIPTION
VR-H9-00-000-00300	NOTES ON BACKSCATTERING AND DEPOLARIZATION BY GENTLY UNDULATING SURFACES. CRES TECHNICAL REPORT 48-12. A.K. FUNG, R.K. MOORE AND B.E. PARKINS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GP-2259 AND NSG-298. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, V.70, NO.6, MARCH 15, 1965, P 1559-1562.
VR-H9-00-000-00301	VECTOR SCATTER THEORY APPLIED TO MOON AND VENUS RADAR RETURN. CRES TECHNICAL REPORT 48-16. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSF GP-2259. PUBLISHED IN THE PROCEEDINGS OF THE IEEE, V.54, NO.7, JULY 1966, P 996-998.
VR-H9-00-000-00304	ELECTRONIC PROCESSING FOR SYNTHETIC APERTURE ARRAY RADAR. CRES TECHNICAL MEMORANDUM 61-48. R.K. MOORE AND J.W. ROUSE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003. PUBLISHED IN PROCEEDINGS OF THE IEEE, V.55, NO.2, FEBRUARY 1967, P 233-234.
VR-H9-00-000-00305	EFFECTS OF STRUCTURE SIZE ON MOON AND EARTH RADAR RETURNS AT VARIOUS ANGLES. CRES TECHNICAL REPORT 48-11. A.K. FUNG AND R.K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSG-477 AND NSG-298. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, V.69, NO.6, MARCH 15, 1964, STAR N64-19586.
VR-H9-00-002-00306	TERRAIN DISCRIMINATION BY RADAR IMAGE POLARIZATION COMPARISON. CRES TECHNICAL MEMORANDUM 61-45. R.K. MOORE AND L.F. DELLWIG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC. ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSR-17-004-003. PUBLISHED IN PROCEEDINGS OF THE IEEE V.54, NO.9, SEPTEMBER 1966, P 1213-1214.
VR-H9-00-000-00307	ON DEPOLARIZATION OF ELECTROMAGNETIC WAVES BACKSCATTERED FROM A ROUGH SURFACE. CRES TECHNICAL REPORT 48-15. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GP-2259 AND NSG-298. PUBLISHED IN PLANETARY SPACE SCIENCE, V.14, 1966, P 563-568.
VR-H9-00-000-00309	CHARACTER OF WAVE DEPOLARIZATION BY A PERFECTLY CONDUCTING ROUGH SURFACE AND ITS APPLICATION TO EARTH AND MOON EXPERIMENTS. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GK-1153 AND GK-875. PUBLISHED IN PLANETARY SPACE SCIENCE, V.15, 1967, P 1337-1347.



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ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00310	MECHANISMS OF POLARIZED AND DEPOLARIZED SCATTERING FROM A ROUGH DIELECTRIC SURFACE. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GK-1153 AND GK-875. PUBLISHED IN JOURNAL OF THE FRANKLIN INSTITUTE, V.285, NO.2, FEBRUARY 1968, P 125-133.
NR-H9-30-000-00311	REFLECTION OF ELECTROMAGNETIC WAVES FROM A TWO DIMENSIONALLY INHOMOGENEOUS MEDIUM. A.K. FUNG AND C.M. TU, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER NSF GK-1153. PUBLISHED IN THE SOUTHWESTERN IEEE CONFERENCE RECORD, 1967, P 12-4-1 TO 12-4-7.
NR-H9-30-000-00312	OMNIDIRECTIONAL SCATTERING OF ACOUSTIC WAVES FROM ROUGH SURFACES OF KNOWN STATISTICS. R.K. MOORE AND B.E. PARKINS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GP2259 AND NSG-298. PUBLISHED IN JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, V.40, NO.1, JULY 1966, P 170-175.
NR-H9-30-000-00313	THEORY OF CROSS POLARIZED POWER RETURNED FROM A RANDOM SURFACE. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GP-2259 AND GK-875. PUBLISHED IN APPLIED SCIENTIFIC RESEARCH, V.18, AUGUST 1967, P 50-60.
NR-H9-30-000-00314	OMNIDIRECTIONAL SCATTERING OF ACOUSTIC WAVES BY ROUGH, IMPERFECTLY REFLECTING SURFACES. B.E. PARKINS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GP-2259 AND NSG-298. PUBLISHED IN JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, V.41, NO.1, JULY 1967, P 126-134.
NR-H9-30-000-00315	HIGH FREQUENCY BACKSCATTER FROM THE EARTH MEASURED AT 1000 KM ALTITUDE. R.C. CHIA, A.K. FUNG AND R.K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NO. NSG-477. PUBLISHED IN RADIO SCIENCE, JOURNAL OF RESEARCH NBS/USNC-URSI, V.69D, NO.4, APRIL 1965, P 641-649.
NR-H9-30-000-00316	A NOTE ON THE WIENER-KHINTCHINE THEOREM FOR AUTOCORRELATION. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GK-875 AND GK-1153. PUBLISHED IN PROCEEDINGS OF THE IEEE, V.55, NO.4, APRIL 1967, P 594-595.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-EJ-000-00317	AN AIRBORNE MULTISPECTRAL TELEVISION SYSTEM, C.J. ROBINOVE AND H.E. TRIBITZKE, U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION, WASHINGTON, D.C., AND PHOENIX, ARIZONA. PUBLISHED IN U.S. GEOLOGICAL SURVEY PROFESSIONAL PAPER 575-D, 1967. STAR N69-30689
NR-H9-EJ-002-00318	RADAR SCATTEROMETER DATA ANALYSIS TECHNIQUES, R.K. MOORE, W.P. WAITE, ET. AL., UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. PUBLISHED IN PROCEEDINGS, FIFTH SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, APRIL 16-18, 1966.
NR-H9-JO-000-00319	BISTATIC MEASUREMENTS OF ACOUSTIC WAVES SCATTERED FROM A STATISTICALLY ROUGH KNOWN SURFACE. CRES TECHNICAL REPORT 48-9, W.D. BOLES, A.K. FUNG AND R.K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBERS NSF GP-2259 AND GK-1153. PRESENTED AT THE 1966 FALL INTERNATIONAL SCIENTIFIC RADIO UNION MEETING, PALO ALTO, CALIFORNIA.
NR-H9-JO-000-00320	RESEARCH IN RADAR SCATTEROMETRY AND ALTIMETRY, R.K. MOORE AND A.W. BIGGS, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. CONTRACT NUMBER N62306-67-C-0044. INCLUDED IN NINTH MEETING OF THE AD HOC SPACECRAFT OCEANOGRAPHY ADVISORY GROUP, TECHNICAL PAPERS, JANUARY 23-24, 1968, TEXAS A+M UNIVERSITY, COLLEGE STATION, TEXAS.
NR-H9-JO-000-00330	GROUND CURRENT PATTERNS OF THE SOUTHERN CALIFORNIA HVDC SEA ELECTRODE. I.C. BECHTOLD, LA HABRA, CALIFORNIA, AND W.R. SMYTHE, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. PAPER NO. 38, PREPRINT, NATIONAL ASSOCIATION OF CORROSION ENGINEERS, 1968 CONFERENCE, CLEVELAND, OHIO.
NR-H9-JO-000-00349	APOLLO 9 (MARCH 3-13, 1969) PRELIMINARY PLOTTING AND INDEXING REPORT. 70MM COLOR HANDHELD AND MULTISPECTRAL EXPERIMENT PHOTOGRAPHS. MAGAZINE A, FRAMES 2909-3052, MAGAZINE E, FRAMES 3053-3177, MAGAZINE B, FRAMES 3178-3323, MAGAZINE C, FRAMES 3324-3474, MAGAZINE D, FRAMES 3475-3618, MAGAZINE F, FRAMES 3620-3681, MAGAZINE G, FRAMES 3682-3695, S065 MULTISPECTRAL PHOTOGRAPHS, FRAMES 3696-3854.
NR-H9-JO-000-00350	APOLLO 8 (DECEMBER 21, 1968) 70MM PHOTO INDICES. 70MM HASSELBLAD. MAGAZINE A, FRAMES 2581-2658, MAGAZINE B, FRAMES 2383-2534, MAGAZINE C, FRAMES 2659-2827, MAGAZINE D, FRAMES 2044-2214, MAGAZINE E, FRAMES 2215-2382, MAGAZINE F, FRAMES 2535-2580, MAGAZINE G, FRAMES 2828-2908.

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NR-H9-30-000-00351	APOLLO 7 (OCTOBER 11, 1968) 70MM PHOTOGRAPHY IDENTIFICATION LIST, HASSELBLAD 500-C (NASA MODIFIED), NOVEMBER 14, 1968, PRELIMINARY REPORT, MAGAZINE M, FRAMES 1-62, MAGAZINE N, FRAMES 1-61, MAGAZINE O, FRAMES 1-66, MAGAZINE P, FRAMES 1-66, MAGAZINE Q, FRAMES 1-61, MAGAZINE R, FRAMES 1-65, MAGAZINE S, FRAMES 1-144, MAGAZINE U, FRAMES 1-31, MAGAZINE V, FRAMES 1-5.
NR-H9-30-000-00352	APOLLO-SATURN 6 (APRIL 4, 1968) 70MM PHOTOGRAPHIC IDENTIFICATION LIST, MAURER, MODEL 220 G, FRAMES 756-1510.
NR-H9-30-000-00353	GEMINI X11 (NOVEMBER 11-15, 1966) 70MM PHOTOGRAPHY IDENTIFICATION, HASSELBLAD, SUPERWIDE ANGLE-70MM, J.A. MAURER, 70MM SPACE CAMERA, NOVEMBER 21, 1966 (PRELIMINARY EDITION) MAGAZINE NO.8, FRAMES 1-150, MAGAZINE NO.11, FRAMES 1-147, MAGAZINE NO.10, FRAMES 1-48, MAGAZINE NO.17, FRAMES 1-70.
NR-H9-30-000-00354	GEMINI X1 (SEPTEMBER 12-15, 1966) 70MM PHOTOGRAPHY IDENTIFICATION, J.A. MAURER, 70MM SPACE CAMERA, HASSELBLAD, SUPER WIDE ANGLE, 70MM, SEPTEMBER 19, 1966, MAGAZINE NO.8, FRAMES 1-63, MAGAZINE NO.9, FRAMES 1-67, MAGAZINE NO.10, FRAMES 1-49, MAGAZINE NO.11, FRAMES 1-43, MAGAZINE NO.12, FRAMES 1-16.
NR-H9-30-000-00355	GEMINI X (JULY 18-21, 1966) 70MM PHOTOGRAPHY IDENTIFICATION, J.A. MAURER, 70MM SPACE CAMERA, HASSELBLAD, SUPER WIDE ANGLE, 70MM, AUGUST 5, 1966 (2ND REV.) MAGAZINE NO.5, FRAMES 1-62, MAGAZINE NO.10, FRAMES 1-50, MAGAZINE NO.11, FRAMES 1-47, MAGAZINE NO.12, FRAMES 1-48, MAGAZINE NO.13, FRAMES 1-47, MAGAZINE NO.14, FRAMES 1-49, MAGAZINE NO.28, FRAMES 1-68.
NR-H9-30-000-00356	GEMINI 1X (JUNE 3-6, 1966) 70MM PHOTOGRAPHY IDENTIFICATION, HASSELBLAD, MODEL 500-C (NASA MODIFIED), HASSELBLAD, SUPER WIDE ANGLE-C (NASA MODIFIED), J.A. MAURER-70 SPACE CAMERA, JUNE 16, 1966 (1ST REV.) MAGAZINE NO. A(SN-7), FRAMES 1-67, MAGAZINE NO. B(SN-8), FRAMES 1-64, MAGAZINE NO. C(SN-9), FRAMES 1-70, MAGAZINE NO. D(SN-2), FRAMES 1-58, MAGAZINE NO. F(SN-011), FRAMES 1-52, MAGAZINE NO. G(SN-012), FRAMES 1-51.
NR-H9-30-000-00357	GEMINI V111 (MARCH 16, 1966) 70MM PHOTOGRAPHY IDENTIFICATION, HASSELBLAD, MODEL 500-C (NASA MODIFIED), JUNE 6, 1966 (1ST REV.) MAGAZINE NO.20, FRAMES 1-19.

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ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00358	GEMINI V11 (DECEMBER 4-18, 1965) 70MM PHOTOGRAPHY IDENTIFICATION. HASSELBLAD, MODEL 500-C (NASA MODIFIED) JUNE 15, 1966 (2ND REV.) MAGAZINE NO.22(A), FRAMES 1-52. MAGAZINE NO.17(M), FRAMES 1-59. MAGAZINE NO.24(C), FRAMES 1-61. MAGAZINE NO.25(D), FRAMES 1-62. MAGAZINE NO.13(K), FRAMES 1-42. MAGAZINE NO.23(B), FRAMES 1-60. MAGAZINE NO.30(G), FRAMES 1-62. MAGAZINE NO.26(E), FRAMES 1-31.
NR-H9-30-000-00359	GEMINI V1 (DECEMBER 15-16, 1965) 70MM PHOTOGRAPHY IDENTIFICATION. HASSELBLAD, MODEL 500 (NASA MODIFIED) JUNE 15, 1966 (2ND REV.) MAGAZINE A, FRAMES 1-62. MAGAZINE B, FRAMES 1-62. MAGAZINE C, FRAMES 1-56. MAGAZINE D, FRAMES 1-12.
NR-H9-30-000-00360	GEMINI V (AUGUST 21-29, 1965) 70MM PHOTOGRAPHY IDENTIFICATION. HASSELBLAD, MODEL 500 C (NASA MODIFIED) JUNE 15, 1966 (4TH REV.) MAGAZINE NO.1, FRAME 1-62. MAGAZINE NO.2, FRAMES 1-56. MAGAZINE NO.3, FRAMES 1-63. MAGAZINE NO.4, FRAMES 1-69.
NR-H9-30-000-00361	GEMINI IV (JUNE 3-7, 1965) 70MM PHOTOGRAPHY IDENTIFICATION. HASSELBLAD, MODEL 500 C (NASA MODIFIED) JUNE 15, 1966 (1ST REV.) MAGAZINE NO.16, FRAMES 1-53. MAGAZINE NO. 7, FRAMES 1-56. MAGAZINE NO. 6, FRAMES 1-12. MAGAZINE NO. 8, FRAMES 1-55. MAGAZINE NO. 9, FRAMES 1-43.
NR-H9-30-000-00362	GEMINI 111 (MARCH 23, 1965) 70MM PHOTOGRAPHY IDENTIFICATION. HASSELBLAD, MODEL 500 C (NASA MODIFIED) JUNE 15, 1966. (3RD REV.) MAGAZINE NO. 1, FRAMES 1-25.
NR-H9-EJ-998-00363	APOLLO 9 MISSION REPORT, REPORT NO. MSC-PA-R-69-2. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACE-CRAFT CENTER, HOUSTON, TEXAS, MAY 1969.
NR-H9-30-000-00364	TECHNICAL INFORMATION SUMMARY, APOLLO-9 (AS-504), APOLLO SATURN V SPACE VEHICLE, REPORT NUMBER R-ASTR-S-69-7, GEORGE C. MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA, FEBRUARY 3, 1969.
NR-H9-30-000-00365	APOLLO 8 MISSION REPORT, REPORT NO. MSC-PA-R-69-1. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACE-CRAFT CENTER, HOUSTON, TEXAS, FEBRUARY 1969.
NR-H9-30-000-00366	APOLLO VIII PHOTOGRAPHIC PROCESSING STANDARDS, SUMMARY REPORT, REPORT NUMBER CTR-69-4, KENNETH B. NEWMAN, ET, AL. DATA CORPORATION, HOUSTON, TEXAS, MAY 1969, CONTRACT NO. NAS 9-7003.

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ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00367	APOLLO 7 MISSION DATA AND INFORMATION LIST, 70MM COLOR PHOTOGRAPHY, MAPPING SCIENCES LABORATORY, NASA-MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. 17 MARCH 1969. CONTRACT NUMBER NAS 9-5191.
VR-H9-30-000-00368	ANALYSIS OF APOLLO AS-501 MISSION EARTH PHOTOGRAPHY, NASA TECHNICAL MEMORANDUM X-58015. COMPILED BY JOHN E. DORNBACH. MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. FEBRUARY 1968. STAR N68-36467.
VR-H9-EJ-998-00369	THE STANFORD INFRARED SPECTRA PROCESSING PACKAGE. STANFORD RSL TECH REPORT 69-3. JOHN R. MOORE, STANFORD UNIVERSITY, REMOTE SENSING LABORATORY, STANFORD, CALIFORNIA. MAY 1969. CONTRACT NUMBER NAS 9-7313.
VR-H9-EJ-998-00372	SCIENCE SCREENING REPORT OF THE APOLLO 7 MISSION, 70-MILLIMETER PHOTOGRAPHY AND NASA EARTH RESOURCES AIRCRAFT MISSION 981 PHOTOGRAPHY. NASA TECHNICAL MEMORANDUM TM X-58029. JOHN E. DORNBACH, JOHN L. KALTENBACH, ET. AL. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. JUNE 1969.
VR-H9-30-000-00378	AERIAL PHOTOGRAPHY, PART 2. CARL H. STRANDBERG, PUBLISHED IN PHOTOGRAPHIC APPLICATIONS IN SCIENCE, TECHNOLOGY AND MEDICINE, WINTER 1968/1969, VOL. 2, NO. 9 P.41-47.
VR-H9-30-000-00379*	NOTES ON CALIBRATION OF CAMERAS AND PHOTOGRAPHS IN PHOTOGRAMMETRY. B. HALLERT, INSTITUTE FOR PHOTOGRAMMETRY, ROYAL TECHNICAL UNIVERSITY, STOCKHOLM, SWEDEN. PUBLISHED IN PHOTOGRAMMETRIA, VOL. 23, NO. 5, SEPT. 1968, PP.163-178.
VR-H9-30-000-00380	AERIAL PHOTOGRAPHY, PART 1. CARL H. STRANDBERG, PUBLISHED IN PHOTOGRAPHIC APPLICATIONS IN SCIENCE, TECHNOLOGY AND MEDICINE. VOL. 2, NO. 8, P.25-31. FALL 1968
VR-H9-30-000-00381	AERIAL PHOTOGRAPHY, PART 3. CARL H. STRANDBERG, PUBLISHED IN PHOTOGRAPHIC APPLICATIONS IN SCIENCE, TECHNOLOGY AND MEDICINE. VOL. 2, NO. 10, P.23-30. MARCH 1969.
VR-H9-30-000-00382*	EARTH RESOURCES DETERMINATION WITH TERRAIN IMAGING RADAR. L.C. GRAHAM, GOODYEAR AEROSPACE CORP., LITCHFIELD PARK, ARIZONA. PUBLISHED IN RESOURCES ROUNDUP, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, REGION SIX CONFERENCE, PHOENIX, ARIZONA, APRIL 1969, TECHNICAL PAPERS, PP.89-95.

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ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00384	CLOUD HEIGHT CONTOURING FROM APOLLO 6 PHOTOGRAPHY. BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY, VOL. 50, NO. 7, PP. 522-528, VICTOR S. WHITEHEAD, IVAN D. BROWN, AND JOE G. GARCIA, NASA/MSC EARTH RESOURCES DIVISION, HOUSTON, TEXAS, JULY 1969
VR-H9-30-000-00385	MONOCHROMATIC PHOTOGRAPHY IN THE EXTREME ULTRAVIOLET. W.M. BURTON, UNITED KINGDOM ATOMIC ENERGY AUTHORITY, CULHAM LABORATORY, ABINGDON, BERKS. PUBLISHED IN JOURNAL OF SCIENTIFIC INSTRUMENTS, V. 42, JULY 1965, P.477-479.
VR-H9-30-000-00386	SPACE AND TIME RESPONSE OF AIRBORNE RADIATION SENSORS FOR THE MEASUREMENT OF GROUND VARIABLES. JOHN A. DUTTON, UNIVERSITY OF WISCONSIN, DEPARTMENT OF METEOROLOGY, MADISON, WISCONSIN. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, V.67, NO.1, JANUARY 1962, P.195-205.
VR-H9-30-000-00388	PHOTOGRAPHIC RESPONSE TO SUCCESSIVE EXPOSURES OF DIFFERENT TYPES OF RADIATION. MARGARETE EHRLICH AND WILLIAM L. MCLAUGHLIN, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. PUBLISHED IN JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, V.51, NO.11, NOVEMBER 1961, P.1172-1181.
VR-H9-30-000-00389	METHODS FOR AUTOMATIC COMPENSATION OF THE EMISSION COEFFICIENT IN MEASURING THE PLASMA TEMPERATURE WITH RESPECT TO RADIO-FREQUENCY THERMAL RADIATION. G.L. IOSEL'SON, KHAR'KOV STATE INSTITUTE OF MEASURES AND MEASURING INSTRUMENTS, USSR. TRANSLATED FROM TEPLIFIZIKA VYSOKIKH TEMPERATUR, V.1, NO.3, NOV.-DEC. 1963, P.437-442. PUBLISHED IN HIGH TEMPERATURE, V.1, NOV.-DEC. 1963, P.391-5.
VR-H9-30-000-00390	THE USE OF A PLASTIC SCINTILLATOR AS AN AIRBORNE GAMMA RADIATION DETECTOR. J.C. DUGGELBY, AUSTRALIAN ATOMIC ENERGY COMMISSION, SUTHERLAND, N.S.W., AUSTRALIA. PUBLISHED IN JOURNAL OF SCIENTIFIC INSTRUMENTS, V.42, 1965, P.772-773.
VR-H9-30-000-00394	STRUCTURE AND INTERPRETATION OF THE OUTWARD RADIATION FIELD AS MEASURED BY TIROS II AND TIROS III. E.P. BORISENKOV, YU.P. DORONIN, AND K.YA. KONDRAT'EV. TRANSLATED FROM KOSMICHESKIE ISSLEDOVANIYA, V.3, NO.3, MAY-JUNE 1965, P.433-443.
VR-H9-30-000-00398	CERTAIN PROBLEMS IN THE INTERPRETATION OF MEASUREMENT DATA ON OUTGOING RADIATION OBTAINED WITH METEOROLOGICAL SATELLITES. K.YA. KONDRAT'EV. TRANSLATED FROM KOSMICHESKIE ISSLEDOVANIYA, V.1, NO.1, JULY-AUGUST 1963, P.98-112.

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ACCESSION NUMBER	DESCRIPTION
VR-H9-EJ-998-00405	THE EFFECT OF AMPLIFIER SATURATION ON A DOPPLER SCATTEROMETER, CRES TECHNICAL REPORT 118-17, G.A. BRADLEY, REMOTE SENSING LABORATORY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. JULY 1969. CONTRACT NO. NAS 9-7175.
VR-H9-EJ-003-00406	MICROWAVE RADIOMETRIC TEMPERATURES OF TERRAIN, REPORT NO. 1903-2, R.L. RIEGLER, DEPARTMENT OF ELECTRICAL ENGINEERING, OHIO STATE UNIVERSITY RESEARCH FOUNDATION, COLUMBUS, OHIO, JUNE 30, 1966. CONTRACT NO. NSR-36-008-027, STAR NUMBER N66-31370.
VR-H9-JO-000-00409	FLIGHT FILM CONTROL FRISKETS APOLLO IX, REPORT NO. DYN 69-4 TERRY D. GLAZE, KENNETH B. NEWMAN, ET. AL., DATA CORP. DAYTON, OHIO. JULY 1969. CONTRACT NUMBER NAS 9-7003.
VR-H9-GH-162-00416	AERIAL PHOTOGRAPHY, MAHLON G. KELLY, NEW YORK UNIVERSITY, DEPT. OF BIOLOGY, BRONX, N.Y. AND ALFRED CONROD, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS., PUBLISHED IN BIOSCIENCE, VOL. 19, NO. 4, APRIL 1969, PP.352-353.
VR-H9-JO-000-00417	BEYOND VISION. SENSORS ALOFT PROMISE NEW AEROSPACE GROWTH. JONATHAN EBERHART, SCIENCE SERVICE, WASHINGTON, D.C. PUBLISHED IN SCIENCE NEWS, JUNE 1968. VOL. 93. PP.527-528.
VR-H9-EJ-029-00418	IMPROVING THE PHOTOGRAMMETRIC CHARACTERISTICS OF AERIAL CAMERAS. CLAIRE L. NORTON, FAIRCHILD SPACE AND DEFENSE SYSTEMS, SYOSSET, NEW YORK. PUBLISHED IN OPTICAL SPECTRA, JAN.-FEB. 1968. PP.64-69.
VR-H9-JO-000-00420	IMAGE QUALITY IN AERIAL PHOTOGRAPHY. LOUIS ROSENBLUM, PHOTOGRAPHIC SYSTEMS CO., PUBLISHED IN OPTICAL SPECTRA, JAN./FEB. 1968. PP.71-73.
VR-H9-EJ-998-00421	APPLICATIONS OF SCIENTIFIC SPACE IMAGERY. DR. FRANK J. WOBBER, IBM CORP., FEDERAL SYSTEM DIV., BETHESDA, MD. PUBLISHED IN SIGNAL, OCTOBER ISSUE, 1968.
VR-H9-JO-000-00426	THE STANFORD INFRARED SPECTRA PROCESSING PACKAGE. RSL TECHNICAL REPORT 69-3. JOHN R. MOORE, STANFORD UNIVERSITY, SCHOOL OF EARTH SCIENCES, STANFORD, CALIFORNIA. (WITH SUBSEQUENT MODIFICATION BY MICHAEL HEATHMAN) MAY 1969. CONTRACT NUMBER NAS9-7313.
VR-H9-JO-000-00430	SENSITIVITY ENHANCEMENT OF A LIMITED POWER EARTH SENSING RADAR, CRES TECHNICAL MEMORANDUM 118-14, RALPH W. GERCHBERG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS, AUGUST 1969 CONTRACT NUMBERS NAS 9-7175 AND DAAK02-68-C-0089.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00432	ATMOSPHERIC LIMITS ON THE OBSERVATIONAL CAPABILITIES OF AEROSPACECRAFT. TN D-4940. JOHN C. EVVARD, LEWIS RESEARCH CENTER, CLEVELAND, OHIO. DECEMBER 1968. STAR N69-12934.
VR-H9-30-000-00446*	A MICROWAVE SCANNING RADIOMETER. KLAUS KUENZI AND ERWIN SCHANDA, INSTITUTE OF APPLIED PHYSICS, UNIVERSITY OF BERN, BERN, SWITZERLAND. PUBLISHED IN IEEE TRANSACTIONS ON MICRO-WAVE THEORY AND TECHNIQUES, SEPT. 1968. VOL. MTT-16, PP.789-791.
VR-H9-30-000-00449	MACHINE LANGUAGE PROGRAMS AND ROUTINES FOR THE COMPUTER OF THE O.M.I.-BENDIX ANALYTICAL PLOTTER AP-2C. PHOTOGRAMMETRY SERIES NO. 1, PART 1. G. KONECNY AND S.E. MASRY, DEPARTMENT OF SURVEYING ENGINEERING, UNIVERSITY OF NEW BRUNSWICK, FREDERICTON, N.B. CANADA. AUGUST 1969
VR-H9-30-000-00450	REMOTE SENSING. VISION BEYOND SIGHT, RONALD J.P. LYON AND ROGER S. VICKERS, SCHOOL OF EARTH SCIENCES, STANFORD UNIVERSITY, STANFORD, CALIFORNIA. OCTOBER 1966. PUBLISHED IN STANFORD TODAY, SERIES 1, NO. 17, PP.2-7.
VR-H9-30-000-00451	MATRIX TREATMENT OF THE ERROR ELLIPSOID. PHOTOGRAMME SERIES NO. 24. R.C. MALHOTRA, UNIVERSITY OF ILLINOIS, URBANA, ILL. AUGUST 1969, CONTRACT NUMBER NATIONAL SCIENCE FOUNDATION GK-1888.
VR-H9-EJ-998-00452	MULTISPECTRAL COLOR SPACE PHOTOGRAPHY. SCIENCE REPORT OF APOLLO 9 MISSION 70MM AND SUPPORTING AIRCRAFT PHOTOGRAPHY. REPORT NO. SERG-TR-09. EDWARD YOST, ROBERT ANDERSON, AND SONORA WENDEROTH, SCIENCE ENGINEERING RESEARCH GROUP, LONG ISLAND UNIVERSITY, GREENVALE, NEW YORK, JULY 1, 1969. CONTRACT NUMBER NAS9-9341.
VR-H9-30-000-00453	HEIGHTS FROM SIMULTANECUS RADAR AND INFRARED. R.K. MOORE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., LAWRENCE, KANSAS. REPRINTED FROM PHOTOGRAMMETRIC ENGINEERING, P.649-651, JULY 1969.
VR-H9-EJ-029-00455	PATTERN RECOGNITION WITH MEASUREMENT SPACE AND SPATIAL CLUSTERING FOR MULTIPLE IMAGES. CRES REPRINT 133-1. R.M. HARALICK, AND G.L. KELLY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., LAWRENCE, KANSAS. CONTRACT NO. DAAK02-68-C-0089. REPRINTED FROM THE PROCEEDINGS OF THE IEEE, VOL. 57, NO. 4, APRIL 1969.



## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00456	THE RADAR RADIOMETER. CRES REPRINT 133-2. R.K. MOORE AND FAWWAZ T. ULABY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. REPRINTED FROM THE PROCEEDINGS OF THE IEEE, VOL. 57, NO. 4, APRIL 1969. P.587-590.
VR-H9-30-000-00457	PANCHROMATIC AND POLYPANCHROMATIC RADAR. CRES REPRINT 133-3 R.K. MOORE, W.P. WAITE, AND J.W. ROUSE, JR., UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. REPRINTED FROM THE PROCEEDINGS OF THE IEEE, VOL. 57, NO. 4, APRIL 1969, P.590-593.
VR-H9-30-000-00462	RADAR POLARIZATION EFFECTS. REPORT NO. JPRS 46624. D.B. KANAREYKIN, ET. AL. USSR. OCTOBER 1968. STAR N68-38217
VR-H9-30-000-00463	METODO FOTOGRAFETRICO Y DE COMPUTO ELECTRONICO APLICADO AL PROYECTO DE UN CAMINO. LUIS AVILES DIAZ DE LEON, UNIVERSITY OF SAN LUIS POTOSI, SCHOOL OF ENGINEERING, MEXICO. AUGUST 1967. STAR N68-85354.
VR-H9-30-000-00472	ACCURACY OF DETERMINING SENSOR BORESIGHT POSITION DURING AIRCRAFT FLIGHT-TEST. W.G. EPPLER, LOCKHEED ELECTRONICS CO. HOUSTON, TEXAS. CONTRACT NUMBER NAS 9-5191.
VR-H9-EJ-027-00473	MULTISPECTRAL TERRAIN PHOTOGRAPHY ON APOLLO 9. PAUL D. LOWMAN, JR., GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLISHED IN GEOTIMES, JULY-AUGUST, 1969. P. 17.
VR-H9-30-000-00474	WITH A CAMERA IN SPACE. REPORT NO. U.D.C. NO.77.044. MAJOR GERMAN THOV, USSR. PUBLISHED IN PRIRODA. 1961. P.8-9. MICROFICHE COPY.
VR-H9-30-000-00476	EULOGISMOGRAPHIC NONLINEAR OPTICAL IMAGE PROCESSING FOR PATTERN RECOGNITION. J.K. HAWKINS AND C.J. MUNSEN. PHILCO RESEARCH LABORATORIES, NEWPORT BEACH, CALIFORNIA. PUBLISHED IN JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 54, NO. 8, AUGUST 1964. PP.998-1003.
VR-H9-30-000-00479	PRINCIPLES OF OPTICAL DATA PROCESSING FOR ENGINEERS. REPORT NO. TM X-55767. A.R. SHULMAN, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. AUGUST 1966. STAR N67-26633.
VR-H9-30-000-00484	THEORETICAL AND EXPERIMENTAL ASPECTS OF LASER PHOTOGRAPHY. DR. BRIAN J. THOMPSON, TECHNICAL OPERATIONS WEST, MT. VIEW, CALIF. PROCEEDINGS S.P.I.E. LASER RANGE INSTRUMENTATION SEMINAR-IN-DEPTH, OCT, 1967, EL PASO, TEXAS, P.69-79, IAA A68-29046.

## TECHNICAL REPORTS - MULTISUBJEC.

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00485	NEW IDEAS AND NEW WORK AT THE FIFTH SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT - CASE 710. B.E. SABLES, RESOURCES TECHNOLOGY CORP., HOUSTON, TEXAS, AND W.L. SMITH, BELLCOMM, INC., WASHINGTON, D.C. MAY 1968. PRESENTED AT THE FIFTH SYMPOSIUM ON THE REMOTE SENSING OF ENVIRONMENT, ANN ARBOR, MICHIGAN, APRIL 16-18, 1968. STAR X68-87063.
VR-H9-EJ-019-00486	RELATING REMOTE SENSOR SIGNALS TO GROUND-TRUTH INFORMATION. W.G. EPPLER, LOCKHEED ELECTRONICS CO., HOUSTON, TEXAS, AND ROY D. MERRILL, LOCKHEED PALO ALTO RESEARCH LAB. PALO ALTO, CALIF. JANUARY 1969. CONTRACT NO. VAS9-7313. PUBLISHED IN PROCEEDINGS OF THE IEEE, VOL. 57, NO. 4. APRIL 1969, PP.665-657.
VR-H9-GH-998-00488	IMAGE-TONE ENHANCEMENT, DONALD S. ROSS, PHILCO-FORD CORP., SPACE AND RE-ENTRY SYSTEMS DIV., PALO ALTO, CALIFORNIA, PRESENTED AT THE AMERICAN SOCIETY OF PHOTOGRAMMETRY AND AMERICAN CONGRESS OF SURVEYING AND MAPPING, WASHINGTON, D.C. 1969.
VR-H9-30-000-00490	APOLLO 11 MISSION REPORT. REPORT NO. 00171. APOLLO 11 MISSION EVALUATION TEAM, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, HOUSTON, TEXAS. NOVEMBER 1969.
VR-H9-30-000-00493	A DISCUSSION OF SOME PRACTICAL CONSIDERATIONS IN THE ACQUISITION AND ANALYSIS OF MULTISPECTRAL PHOTOGRAPHY. D.S. ROSS, PHILCO-FORD CORP., SPACE AND RE-ENTRY SYSTEMS DIV., PALO ALTO, CALIFORNIA. PRESENTED AT THE FIFTH MEETING OF THE AD HOC SPACECRAFT OCEANOGRAPHY ADVISORY GROUP, JOHN F. KENNEDY SPACE CENTER, COCOA BEACH, FLA. JANUARY 1967.
VR-H9-30-000-00494	COMPARATIVE PHOTOINTERPRETATION FROM PANCHROMATIC, COLOR AND EKTACHROME IR PHOTOGRAPHY. ABRAHAM ANSON, U.S. ARMY CORPS OF ENGINEERS, FORT BELVOIR, VIRGINIA. PRESENTED AT SEMI-ANNUAL CONVENTION OF THE AMERICAN SOCIETY OF PHOTOGRAMMETRY IN DAYTON, OHIO. SEPT.22-24, 1965. STAR X67-88032.
VR-H9-30-000-00502	LASER WAVE PROPAGATION THROUGH THE ATMOSPHERE, H. HODARA, TETRA TECH, INC., PASADENA, CALIF. REPRINTED FROM THE PROCEEDINGS OF THE IEEE, VOL. 54, NO. 3, MARCH 1966, PP.368-375.
VR-H9-30-000-00503	EFFECTS OF A TURBULENT ATMOSPHERE ON THE PHASE AND FREQUENCY OF OPTICAL WAVES. H. HODARA, TETRA TECH, INC., PASADENA, CALIFORNIA. REPRINTED FROM THE PROCEEDINGS OF THE IEEE, VOL. 56, NO. 12, DEC. 1968, PP.2130-2136.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-J0-000-00510	ON THE APPLICATION OF MAN-MACHINE COMPUTING SYSTEMS TO PROBLEMS IN REMOTE SENSING. PHILIP H. SWAIN AND DON A. GERMANN, LABORATORY FOR REMOTE SENSING, PURDUE UNIVERSITY, LAFAYETTE, INDIANA. CONTRACT NO. 12-14-100-8926(20). PRESENTED AT THE 11TH MIDWEST SYMPOSIUM ON CIRCUIT THEORY, NOTRE DAME UNIVERSITY, INDIANA, MAY 13-14, 1969. P.241-250.
VR-H9-J0-000-00515	THE INTERPRETOSCOPE, A NEW INSTRUMENT FOR PHOTOGRAPHIC INTERPRETATION. BY K. HERDA. PUBLISHED IN VERMESSUNGSTECHNIK, (ARMY) (GEODETIC TECHNOLOGY) NO. 12, 1965, PP.457,460. STAR X69-12733.
VR-H9-JJ-092-00516	(U) DEGRADATION OF IMAGERY FROM OPTICAL-MECHANICAL SCANNERS, MOISTURE CONDENSATION ON OPTICS. REPORT NUMBER AFRL-67-0398. RICHARD S. WILLIAMS, JR., AND ROBERT W. FENN, U.S. AIR FORCE CAMBRIDGE RESEARCH LAB., BEDFORD, MASS. JUNE 1967. STAR X67-23248.
VR-H9-J0-000-00520	A STATISTICAL STUDY OF TARGET TEMPERATURE. FINAL REPORT. TECHNICAL REPORT NO. RADC-TR-66-160. M. LOTMAN AND J. ACKERMAN, AERO SERVICE CORP., PHILADELPHIA, PA. AUGUST 1966. STAR X67-13186.
VR-H9-JJ-024-00521	EARTHQUAKE PREDICTION FROM LASER SURVEYING. NASA SP-5042. R.A. FOWLER, NORTH AMERICAN ROCKWELL CORP., DOWNEY, CALIF. 1968. CONTRACT NUMBER NASW-977.
VR-H9-JK-007-00524	TECHNIQUES FOR QUALITATIVE EVALUATION OF INFRARED IMAGERY. J.R. ELIASON, BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON. FEBRUARY 1968.
VR-H9-J0-000-00527	NARROW-BAND ULTRAVIOLET FILTER PHOTOGRAPHY. REPORT NO. AFFDL-TR-66-140. VERNON L. MANGOLD, U.S. AIR FORCE AVIONICS LABORATORY, WRIGHT-PATTERSON AIR FORCE BASE, OHIO. OCTOBER 1966. STAR X67-17083.
VR-H9-J0-000-00532*	REMOTE SENSING PAPERS AT THE AAAS-IMPACT AND IMPLICATIONS. JAMES P. LATHAM, FLORIDA ATLANTIC UNIVERSITY, DEPT. OF GEOGRAPHY, BOCA RATON, FLORIDA. JUNE 1967. CONTRACT NUMBER NONR 4761(00). MICROFICHE AND HARD COPY. STAR N68-81060.
VR-H9-EJ-998-00538	APOLLO TESTS FOUR-CAMERA TERRAIN STUDY. PAUL D. LOWMAN, NASA/GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. PUBLISHED IN SPACE TECHNOLOGY INTERNATIONAL, VOL. 12, NO. 3, JULY 1969. PP.19-26.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-00-000-00539	EXTERNAL GEOMETRIC EFFECTS ON IMAGERY FROM AN EARTH RE-SOURCES TECHNOLOGY SATELLITE. ALDEN P. COLVOCORESSES, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. AUGUST 1969.
NR-H9-EJ-027-00540	SURVEYING THE EARTH FROM 20,000 MILES. A.P. COLVOCORESSES, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PRESENTED AT THE ANNUAL CONVENTION OF THE SOCIETY OF PHOTOGRAPHIC SCIENTISTS AND ENGINEER, MAY 1969.
NR-H9-00-000-00542	ORBITAL SURVEYS OF THE EARTH. WILLIAM A. FISCHER, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. MAY 1967.
NR-H9-EJ-011-00543	DIGITAL REGISTRATION OF MULTISPECTRAL VIDEO IMAGERY. PAUL E. ANUTA, LABORATORY FOR AGRICULTURAL REMOTE SENSING, PURDUE UNIVERSITY, LAFAYETTE, INDIANA. CONTRACT NUMBER 12-14-100-9549 (20). PUBLISHED IN SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS JOURNAL, VOL. 7, NO. 6, SEPTEMBER 1969. PP.168-175.
NR-H9-00-000-00549	APPLICATIONS OF HOLOGRAPHY IN ENVIRONMENTAL SCIENCE. J.D. TROLINGER, ET AL., UNIVERSITY OF TENNESSEE, SPACE INSTITUTE, TULLAHOMA, TENN. PUBLISHED IN JOURNAL OF ENVIRONMENTAL SCIENCES, VOL. 12, NO. 5, OCT. 1969. PP.10-14.
NR-H9-00-000-00550	DEVELOPMENT AND USE OF AN AIRBORNE AIR MARKER FOR ATMOSPHERIC RESEARCH. KLAUS W. NIELSEN AND EDWIN X. BERRY, UNIVERSITY OF NEVADA, DESERT RESEARCH INSTITUTE, RENO, NEVADA. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 8, NO. 4, AUGUST 1969. PP.502-505.
NR-H9-00-000-00552*	PRINCIPLES OF AERIAL PHOTOGRAPHY AND PHOTOGRAMMETRY. F.V. DROBISHEV, U.S. AIR FORCE, WRIGHT-PATTERSON AIR FORCE BASE, OHIO. JUNE 1967. MICROFICHE COPY. STAR N68-27136.
NR-H9-00-000-00564*	A SPECTROGONIOMETER FOR DETERMINATION OF THE INDICATRICES OF REFLECT--ETC. (U) K.P. MOLDAU, USSR. JAN. 1968. MICROFICHE COPY. STAR N69-11888.
NR-H9-GH-998-00566*	STATUS OF AERIAL COLOR PHOTOGRAPHY IN GOVERNMENT AGENCIES. ABRAHAM ANSON, U.S. ARMY ENGINEER, GIMRADA, FORT BELVOIR, VIRGINIA. MAY 1968. MICROFICHE COPY. STAR N68-38142.
NR-H9-GJ-000-00567*	AN AAR-32 AIRBORNE RADIOMETER SYSTEM. FINAL REPORT, DEC. 1967. SPERRY RAND CORP., CLEARWATER, FLORIDA. MICROFICHE COPY. STAR N68-38066.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00584*	LASER RADAR APPLICATIONS. RONALD T.H. COLLIS, STANFORD RESEARCH INSTITUTE, AEROPHYSICS LAB., MENLO PARK, CALIF. PUBLISHED IN MICROWAVES, VOL. 8, MARCH 1969, PP.94-101
VR-H9-30-000-00586*	COLOR CONTACT PRINTS FROM 70-MM. COLOR FILM., PRODUCED BY SMALL PHOTO LAB. U.S.C.A. FOREST SERVICE RESEARCH NOTE PSW-185. RICHARD J. MYHRE AND RALPH J. CROXTON, PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION, U.S. FOREST SERVICE, BERKELEY, CALIFORNIA, 1968.
VR-H9-30-998-00588*	SIDE LOOK RADAR. WESTINGHOUSE ELECTRIC CORP., BALTIMORE, MARYLAND. 1968.
VR-H9-30-000-00590*	PHOTOGRAPHIC RESOLVING POWER OF AERIAL RECONNAISSANCE LENSES AS A FUNCTION OF TARGET MODULATION. TECHNICAL REPORT 28. JAMES WILLIAM MAYO III, UNIVERSITY OF ARIZONA, OPTICAL SCIENCES CENTER, TUCSON, ARIZONA. AUGUST 1969.
VR-H9-30-000-00591*	DUAL RADIOMETER ASSEMBLY FOR PROJECT SCANNER. NASA CR-1086. STILLMAN C. CHASE, SANTA BARBARA RESEARCH CENTER, GOLETA, CALIFORNIA. JULY 1968. CONTRACT NUMBER NAS 1-3827.
VR-H9-30-000-00593	THE APPLICATIONS TECHNOLOGY SATELLITE IMAGE DISSECTOR CAMERA EXPERIMENT. NASA TN D-4186. G.A. BRANCHFLOWER, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. NOVEMBER 1967. STAR N68-10647.
VR-H9-30-000-00596*	EFFECT OF IMAGE CONTRAST AND RESOLUTION ON PHOTOINTERPRETER TARGET DETECTION AND IDENTIFICATION. THOMAS L. COLUCCIO AND SHELTON MACLEOD, ROME AIR DEVELOPMENT CENTER, GRIFFISS AFB, NEW YORK. PUBLISHED IN JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 59, NO. 11, NOV. 1969, PP.1478-1481.
VR-H9-30-000-00597*	INFRARED HOLOGRAPHY BY METHODS OF NONLINEAR OPTICS. E.S. VORONIN, N.I. DIVLEKEEV, ET AL., MOSCOW STATE UNIVERSITY, USSR. PUBLISHED IN JETP LETTER, VOL. 10, NO. 4, AUG. 1969. PP.108-110.
VR-H9-30-000-00603	SPECIFICATIONS FOR AERIAL PHOTOGRAPHY. FOREST SERVICE, U.S. DEPT. OF AGRICULTURE, WASHINGTON, D.C. JANUARY 1969.
VR-H9-30-000-00606	SPATIOTEMPORAL CHROMATICITY DISCRIMINATION. GERARD J.C. VAN DER HORST AND MAARTEN A. BOUMAN, PHYSICS LABORATORY, DEPT. OF MEDICAL AND PHYSIOLOGICAL PHYSICS, THE NETHERLANDS. PUBLISHED IN JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 59, NO. 11, NOV. 1969. PP.1482-1488.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00609	MICROWAVE HOLOGRAPHY USING A TWO-BEAM INTERFERENCE METHOD. YOSHINAO AOKI, HOKKAIDO UNIVERSITY, DEPT. OF ELECTRONICS ENGINEERING, SAPPORO, JAPAN. PUBLISHED IN ELECTRONICS AND COMMUNICATIONS IN JAPAN, VOL. 52-B, NO. 1, 1969. PP.47-53.
NR-H9-EJ-998-00612*	FOTOGRAFIA ORBITALE. UN NUOVO METODO PER OSSERVARE LA TERRA. FRANK J. WOBBER, IBM FEDERAL SYSTEM CENTER, GAITHERSBURG, MARYLAND. 1969. PUBLISHED IN ESTRATTI ENCICLOPEDIA DELLA SCIENZA E DELLA TECNICA MONDADORI, 9 AND 1/69, ANNUARIO DELLA EST, PP.1/5-184,
NR-H9-30-000-00615*	TRANSFER OF MICROWAVE RADIATION IN THE ATMOSPHERE. (PERENOS MIKROVOLNOVOGO IZLUCHENIYA V ATMOSFERE) TRANSACTIONS OF THE MAIN GEOPHYSICAL OBSERVATORY IM. A.I. VOYEYKOV, NO. 222, REPORT NO. NASA TT F-390. EDITED BY K.S. SHIFRIN, JULY 1969 STAR N69-31851.
NR-H9-30-000-00617	MULTIBAND CAMERA MONOGRAPH. REPORT NO. 44. P.N. SLATER, UNIVERSITY OF ARIZONA, OPTICAL SCIENCES CENTER, TUCSON, ARIZONA. OCTOBER 1969.
NR-H9-30-000-00623*	DIE UMFORMUNG PHOTOGRAMMETRISCH GEMESSENER KOORDINATEN, (THE TRANSFORMATION OF PHOTOGRAMMETRICALLY DETERMINED COORDINATES). RUDOLF FORSTNER. INSTITUT FUER ANGEWANDTE GEODASIE, FRANKFURT AM MAIN, WEST GERMANY. 1967. PUBLISHED IN AKADEMIE DER WISSENSCHAFTEN, MUNICH, DEUTSCHE GEODÄTISCHE KOMMISSION, VERÖFFENTLICHUNGEN, REIHE B, ANGEWANDTE GEODASIE. BAMBERG, HEFT 130, 1967. STAR V69-30650.
NR-H9-30-000-00626*	THE APOLLO COLOR TELEVISION CAMERA. L.L. NIEMYER, JR., WESTINGHOUSE DEFENSE AND SPACE CENTER, AEROSPACE DIV., BALTIMORE, MD. PUBLISHED IN WESTINGHOUSE ENGINEER, VOL. 29, NO. 6, NOV. 1969. PP.170-177.
NR-H9-30-000-00628*	THE RANGE ERROR STATISTICS OF A SATELLITE RADAR ALTIMETER, TECHNICAL REPORT 112-2. HAN L. LEE, REMOTE SENSING LAB., UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. SEPTEMBER 1969. CONTRACT NO. N 62306-67-C-0044,
NR-H9-30-000-00629*	RADAR DETERMINATION OF THE SURFACE PROPERTIES OF RANDOMLY ROUGH SURFACES. A.K. FUNG, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH INC., ENGINEERING SCIENCE DIV., LAWRENCE, KANSAS. PUBLISHED IN PROCEEDINGS OF IEEE, VOL. 56, DEC. 1968. PP.2163-2164.

## TECHNICAL REPORTS - MULTISUBJECT

## ACCESSION NUMBER

## DESCRIPTION

- NR-H9-30-000-00632\* THERMAL MAPPING. RICHARD BLYTHE, AND ELLEN KURATH, THE BENDIX CORP., AEROSPACE SYSTEMS DIV., ANN ARBOR, MICHIGAN. PUBLISHED IN S.P. E. JOURNAL, VOL. 8, NO. 1, NOV. 1969. PP.18-23.
- NR-H9-30-000-00635\* MULTISENSOR RECONNAISSANCE. STUDENT TEXT TS-1-91. ARMED FORCES AIR INTELLIGENCE TRAINING CENTER, LOWRY AFB, COLORADO JUNE 1969.
- NR-H9-30-000-00636\* GRIDDING TECHNIQUE FOR SATELLITE PICTURES. E. DE DYCKER, ROYAL BELGIUM METEOROLOGICAL INSTITUTE, DEPT. OF APPLIED METEOROLOGY, BRUSSELS, BELGIUM. PUBLISHED IN INSTITUT ROYAL METEOROLOGIQUE DE BELGIQUE, PUBLICATIONS, SERIES B, NO. 56, 1969. PP.3-12. MICROFICHE COPY.
- NR-H9-30-000-00638\* EARTH RESOURCES SATELLITES. G.K.C. PARDOE, HAWER SIDDELEY DYNAMICS LTD., WATFIELD, HERTS, ENGLAND. PUBLISHED IN SCIENCE JOURNAL, VOL. 5, JUNE 1969. PP.58-67.
- NR-H9-30-000-00640\* OPTIMUM FINITE SEQUENTIAL PATTERN RECOGNITION. LARS INFORMATION NOTE 070767. K.S. FU AND G.P. CARDILLO, LABORATORY FOR AGRICULTURAL REMOTE SENSING, PURDUE UNIVERSITY, LAFAYETTE, INDIANA. JULY 1967. CONTRACT NUMBER 12-14-100-8926(20). STAR N68-17167.
- NR-H9-30-000-00645\* ON THE APPLICATION OF DISCRIMINANT ANALYSIS TO IDENTIFICATION IN AERIAL PHOTOGRAPHY. L.N. KANAL AND K.K. NAMBIAR, PHILCO SCIENTIFIC LAB., BLUE BELL, PA. PRESENTED AT THE 7TH NATIONAL CONVENTION ON MILITARY ELECTRONICS, SEPT. 1963. WASHINGTON, D.C. PP.416-419.
- NR-H9-30-000-00651\* MEASUREMENTS OF ELECTROMAGNETIC BACKSCATTERING FROM KNOWN, ROUGH SURFACES. JACQUES RENAULT AND JAMES A. COLLINSON, AMERICAN TELEPHONE AND TELEGRAPH CO., NEW YORK, N.Y. PUBLISHED IN THE BELL SYSTEM TECHNICAL JOURNAL, VOL. 44, NO. 10, DECEMBER 1965. PP.2203-2226.
- NR-H9-30-000-00654\* THE INTERPRETATION OF DAYTIME MEASUREMENTS BY THE NIMBUS I AND II HIGH RESOLUTION INFRARED RADIOMETERS. NASA TND-4552. G. KUERS, NASA/GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. JUNE 1968. STAR N68-25862.
- NR-H9-30-000-00655\* SATELLITE METEOROLOGY, TRANSLATED FROM SPUTNIKOVAYA METEOROLOGIYA, LENINGRAD. JULY 1969. NO. 11, PP.15-33, 98-104, 115-137, 145-159. STAR N69-36401.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00656*	SMALL PAYLOAD POTENTIAL FOR EARTH RESOURCES. ALFRED I. SIBILA, LTV AEROSPACE CORP., DALLAS, TEXAS. PRESENTED AT BRITISH INTERPLANETARY SOCIETY INTERNATIONAL SUMMER SCHOOL ON EARTH RESOURCES SURVEY SATELLITES - JULY 14-15, 1969. CAMBRIDGE, ENGLAND.
NR-H9-EJ-998-00657*	APOLLO 9 MULTISPECTRAL PHOTOGRAPHY - GEOLOGIC ANALYSIS. REPORT NO. X-644-69-423. PAUL D. LOWMAN, JR., NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. SEPTEMBER 1969. STAR N69-40203.
NR-H9-30-000-00658*	ELECTRONIC RAPID-SCANNING SPECTROMETER. FINAL REPORT COVERING PERIOD FEB. 1965 - JULY 1968. REPORT NO. AFCRL-68-0597. ALLEN J. STEED, JOHN C. KEMP, ET AL., UTAH STATE UNIVERSITY, ELECTRO-DYNAMICS LAB., LOGAN, UTAH, JULY 1969. CONTRACT NUMBER AF19(628)-4994. MICROFICHE COPY. STAR N69-34295.
NR-H9-30-000-00661*	PHYSICAL BASIS AND TECHNICAL MEANS OF AERIAL METHODS. B.V. SHILIN, U.S. NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. 1967. MICROFICHE COPY. STAR N69-33287.
NR-H9-30-000-00662*	SATURATION OF SCINTILLATION MAGNITUDE IN NEAR-EARTH OPTICAL PROPAGATION. SUPERSEDES BRL-MR-1941. PAUL H. DELTZ AND NEAL J. WRIGHT, ABERDEEN PROVING GROUND, BALLISTIC RESEARCH LAB., MARYLAND. OCT. 1968. MICROFICHE COPY. STAR N69-20514.
NR-H9-30-000-00664*	PHOTOGRAPHY AND STEREOSCOPY. REPORT NO. AFOSR 69-1466TR. NICHOLAS GEORGE AND J.T. MCCRICKERD, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA. PRESENTED AT THE ANNUAL CONFERENCE ON PHOTOGRAPHIC SCIENCE AND ENGINEERING, LOS ANGELES, CALIFORNIA. MAY 1969. MICROFICHE COPY. STAR N69-35681.
NR-H9-30-000-00665*	INVESTIGATION OF THE INFRARED EMISSION SPECTRUM OF THE ATMOSPHERE AND EARTH. PART II. BALLOON-BORNE RADIOMETERS FOR MEASUREMENTS OF THE ATMOSPHERIC INFRARED RADIATION. FINAL REPORT. P. BURKERT, ET AL., LUDWIG-MAXIMILIANS UNIVERSITÄT, METEOROLOGISCHES INSTITUT, MUNICH, WEST GERMANY. OCTOBER 1968. MICROFICHE COPY. STAR N69-35175.
NR-H9-30-000-00669*	SCATTERING OF WAVES FROM A ROUGH LAYER. CRES TECHNICAL REPORT 118-19. WILLIAM D. BOLES, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS. SEPTEMBER 1969. CONTRACT NUMBERS NAS 9-7175 AND DAAK02-68-C-0089. STAR N70-15793.



## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00670*	CONVERSION OF INFRARED IMAGES TO VISIBLE IN COLOR. L.W. NICHOLS AND J. LAMAR, U.S. NAVAL WEAPONS CENTER, CHINA LAKE, CALIFORNIA. PUBLISHED IN APPLIED OPTICS, VOL. 7, NO. 9, SEPT. 1968. PP.1757-1762.
NR-H9-30-000-00677*	CORRELATING REMOTE SENSOR SIGNALS WITH GROUND-TRUTH INFORMATION. WALTER G. EPPLER AND ROY D. MERRILL, LOCKHEED MISSILE AND SPACE CO., PALO ALTO, CALIFORNIA. NOVEMBER 1968. STAR N69-34996.
NR-H9-30-000-00678*	THE APPLICATION OF A MULTISPECTRAL COLOR PHOTOGRAPHIC SYSTEM. EDWARD YOST, LONG ISLAND UNIVERSITY, GREENVALE, NEW YORK. PRESENTED AT THE PROCEEDINGS OF THE C.I.S./I.C.A.S., SYMPOSIUM ON AIR PHOTO INTERPRETATION, ONTARIO, CANADA, 1967. PP.176-182.
NR-H9-30-000-00683*	RECURSIVE ALGORITHMS FOR PATTERN CLASSIFICATION USING MISCLASSIFIED SAMPLES. REPORT NO. TR-EE-68-14. NASA CR 96120. R.L. KASHYAP, PURDUE UNIVERSITY, SCHOOL OF ELECTRICAL ENGINEERING, LAFAYETTE, INDIANA. JUNE 1968.
NR-H9-30-000-00689*	APOLLO 10 (DECEMBER 1969) PHOTOGRAPHY INDEX, 70MM AND 16MM, PRELIMINARY. 70MM HASSELBLAD, MAGAZINE M, FRAMES 5009-5173. MAGAZINE N, FRAMES 3855-3987. MAGAZINE O, FRAMES 3988-4163. MAGAZINE P, FRAMES 4164-4326. MAGAZINE Q, FRAMES 4327-4499. MAGAZINE R, FRAMES 4500-4674. MAGAZINE S, FRAMES 4675-4856. MAGAZINE T, FRAMES 4857-5008. MAGAZINE U, V, X, L, (NOT INDEXED AT THIS DATE).
NR-H9-30-000-00691*	INTERPRETATION OF AERIAL PHOTOGRAPHS IN THEORY AND PRACTICE. TRANSLATED FROM RUSSIAN. V.M. BAKHVALOV, V.V. KOLTISOV, ET AL., MOSCOW. FOREIGN TECHNOLOGY DIV., AIR FORCE SYSTEMS COMMAND, WRIGHT-PATTERSON AFB, OHIO. SELECTED ARTICLES FROM TEORIYA I PRAKTIKA DESHIFIROVANIYA AEROSNIMKOV, (MOSCOW) 1966, PP.16-27, 55-60, 170-179. MICROFICHE COPY. STAR N69-18523 - N69-18526.
NR-H9-30-000-00693*	DEBLURRING OF MOTION-BLURRED PHOTOGRAPHS USING EXTENDED-RANGE HOLOGRAPHIC FOURIER-TRANSFORM DIVISION. GEORGE W. STROKE, ET AL., NEW YORK STATE UNIVERSITY, ELECTRO-OPTICAL SCIENCE CENTER, STONY BROOK, N.Y. PUBLISHED IN OPTICS COMMUNICATIONS, VOL. 1, JULY-AUG. 1969. PP.141-145. MICROFICHE COPY.
NR-H9-30-000-00697*	HOLOGRAPHIC PHOTOGRAMMETRY. J.D. REDMAN AND W.P. WOLTON, UNITED KINGDOM ATOMIC ENERGY AUTHORITY, BERKS, ENGLAND. PRESENTED AT INTERNATIONAL CONGRESS OF PHOTOGRAMMETRY, 11TH, LAUSANNE, SWITZERLAND, JULY 1968. MICROFICHE COPY.

TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-3J-000-00698*	COMPARATIVE PHOTOINTERPRETATION FROM PANCHROMATIC, COLOR, AND EKTACHROM IR PHOTOGRAPHY, ABRAHAM ANSON, U.S. ARMY TOPOGRAPHIC LABORATORIES, FORT BELVOIR, VA. PRESENTED AT INTERNATIONAL CONGRESS OF PHOTOGRAMMETRY, 11TH, LAUSANNE, SWITZERLAND, JULY 1968. MICROFICHE COPY.
NR-H9-30-000-00699*	INCREASED LUMINANCE IN THE DIRECTION OF REFLEX REFLEXION- A RECENTLY OBSERVED NATURAL PHENOMENON. JOHN A. HOWARD, SCHOOL OF FORESTRY, UNIVERSITY OF MELBOURNE, AUSTRALIA. PUBLISHED IN NATURE (LONDON), VOL. 224, DECEMBER 1969, PP.1102-1103.
NR-H9-30-000-00701*	REMOTE SENSING OF THE TERRESTRIAL ENVIRONMENT WITH AN HF RADIO HIGH-RESOLUTION AZIMUTH AND ELEVATION SCAN SYSTEM. LOWELL H. TVETEN AND ROBERT HUNSUCKER, ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, BOULDER, COLORADO, PUBLISHED IN PROCEEDINGS OF THE IEEE, VOL. 57, NO. 4, APRIL 1969, PP.487-493.
NR-H9-30-000-00704*	APOLLO 8 COLORIMETRY. NASA CR-106458. A.F.H. GOETZ, BELLCOMM, INC., WASHINGTON, D.C. MARCH 1969. CONTRACT NUMBER NASW-417. STAR N69-40799.
NR-H9-30-000-00705*	RAUMFAHRT UND GEOWISSENSCHAFTEN. (SPACE TRAVEL AND EARTH SCIENCES). F. DUERR, BOLKOW, GMBH, OTTOBRUNN, WEST GERMANY, PUBLISHED IN WELTRAUMFAHRT RAKETENTECHNIK, VOL. 18, HEFT. 4, JULY-AUG. 1967. PP.100-107. MICROFICHE COPY.
NR-H9-30-000-00710*	HOLOGRAPHIC COMPENSATION OF MOTION BLUR BY SHUTTER MODULATION. OLOF BRYNGDAHL, IBM RESEARCH DIV., LOS GATOS, CALIF. ADOLF LOHMANN, UNIVERSITY OF CALIFORNIA, LA JOLLA, CALIF. PUBLISHED IN JOURNAL OF OPTICAL SOCIETY OF AMERICA, VOL. 59, SEPTEMBER 1969, PP.1175-1178.
NR-H9-30-000-00711*	REMOTE SENSING WITH OPTICAL CROSS-CORRELATION METHODS. F.R. KRAUSE, AERO-ASTRODYNAMICS LAB., MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA, AND M.J. FISHER, IIT RESEARCH INSTITUTE, CHICAGO, ILL. PRESENTED AT THE INTER DISCIPLINARY SYMPOSIUM ON APOLLO APPLICATIONS PROGRAM, JANUARY 1966. PP.191-214. MICROFICHE COPY, STAR N67-24276.
NR-H9-30-000-00712*	EARTH RESOURCE SATELLITE SYSTEMS. G.K.C. PARDOE, HAWKER SIDDELEY DYNAMICS LTD., SPACE DIV., HATFIELD, HERTS, ENG. PUBLISHED IN THE AERONAUTICAL JOURNAL OF THE ROYAL AERONAUTICAL SOCIETY, VOL. 73, APRIL 1969. PP.297-306.

## TECHNICAL REPORTS - MULTISUBJECT

## ACCESSION NUMBER

## DESCRIPTION

- NR-H9-30-000-00713\* SOURCE-SCANNING TYPE HOLOGRAPHY. MAKOTO KATSURAI, UNIV. OF TOKYO, JAPAN. PUBLISHED IN ELECTRONICS AND COMMUNICATIONS IN JAPAN, VOL. #2, NO. 2, MARCH 1969. P.112.
- NR-H9-30-000-00714\* A NEW ELECTRO-OPTICAL TECHNIQUE FOR PARTICLE SIZE MEASUREMENTS. ROBERT C. KNOLLENBERG AND W. EDWARD NEISH, NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, BOULDER, COLORADO.
- NR-H9-30-000-00719\* EXPERIMENTS IN LONG-DISTANCE HOLOGRAPHIC IMAGERY. J.W. GOODMAN, D.W. JACKSON, ET AL., STANFORD UNIVERSITY, ELECTRONICS LAB., STANFORD, CALIFORNIA. PUBLISHED IN APPLIED OPTICS, VOL. 8, NO. 8, AUGUST 1969. PP.1581-1586.
- NR-H9-30-000-00723\* A METHOD FOR PHOTOGRAPHING MICROWAVE WITH A POLAROID FILM. NASA CR-94305. REPORT NO. 558, KEIGO IIZUKA, HARVARD UNIV. DIV. OF ENGINEERING AND APPLIED PHYSICS, CAMBRIDGE, MASS. MARCH 1968. CONTRACT NO. N00014-67-A-0298-0005. STAR N68-22035.
- NR-H9-30-000-00724\* TARGET DETECTION IN AERIAL PHOTOGRAPHY. L.V. KANAL AND N.C. RANDALL, PHILCO CORP. BLUE BELL, PA. PUBLISHED IN IEEE WESCON, AUG. 1964. PP.8.3-1 THRU 8.3-10.
- NR-H9-30-000-00726\* SIDE-LOOKING RADAR PRESENTATION VIEWING AND MEASURING INSTRUMENT. CLIFFORD J. CRANDALL, U.S. ARMY ENGINEER, GEODESY, INTELLIGENCE AND MAPPING RESEARCH AND DEVELOPMENT AGENCY, FT. BELVOIR, VIRGINIA. JANUARY 1965.
- NR-H9-30-000-00727\* IMPROVING THE EFFICIENCY AND SPECTRAL RESPONSE OF FREE RADICAL PHOTOGRAPHY. REPORT NO. AL TDR 64-106. R.H. SPRAGUE, HORIZONS INC., CLEVELAND, OHIO. JUNE 1964. CONTRACT NO. AF 33(657)-11004.
- NR-H9-30-000-00729\* ANALYSIS OF APOLLO 8 PHOTOGRAPHY AND VISUAL OBSERVATIONS. NASA SP-201. NASA/MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. 1969.
- NR-H9-30-000-00734\* MRB 9/2323 AERIAL SURVEY CAMERA. GEHARD WURTZ. PUBLISHED IN JENA REVIEW, VOL. 14, NO. 2, 1969. PP.111-114. MICROFICHE COPY.
- NR-H9-30-000-00735\* NEW HIGH-RESOLUTION PHOTOGRAPHIC LAYERS AND THEIR STUDY BY THE METHOD OF HOLOGRAPHIC RESOLVIMETRY. I.U. A. BYKOVSKI, ET AL., USSR. PUBLISHED IN AKADEMIJA NAUK SSSR, DOKLADY, VOL. 185, NO. 3, MARCH 1969. PP.552-554. MICROFICHE COPY.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00754*	A STEREOPHOTOGRAMMETRIC INSTRUMENT. REPORT NO. FTD-HT-23-202-68. G.V. LAZAREV, USSR, DEC. 1963, MICROFICHE COPY. STAR N70-11695.
VR-H9-30-000-00757*	AN IMAGING SYSTEM EXHIBITING WAVELENGTH-DEPENDENT RESOLUTION. S.Y. CHAI, AMERICAN TEL. AND TEL. CO., NEW YORK, N.Y. PUBLISHED IN THE BELL SYSTEM TECHNICAL JOURNAL, VOL. 48, NO. 6, JULY-AUG. 1969, PP.1885-1907.
VR-H9-30-000-00764*	ORL EXPERIMENT PROGRAM. VOL. B, PART 5 - ATMOSPHERIC SCIENCE AND TECHNOLOGY. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17051.
VR-H9-30-000-00766*	ORL EXPERIMENT PROGRAM. VOL. B, PART 7 - BIOMEDICINE/ BEHAVIOR. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17053.
VR-H9-30-000-00767*	ORL EXPERIMENT PROGRAM. VOL. B, PART 8 - ADVANCED TECHNOLOGY AND SUPPORTING RESEARCH. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17054.
VR-H9-30-000-00768*	ORL EXPERIMENT PROGRAM. VOL. B, PART 9 - OPERATIONS TECHNIQUES AND ADVANCED MISSIONS SPACECRAFT SUBSYSTEMS. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17055.
VR-H9-30-000-00769*	ORL EXPERIMENT PROGRAM. VOL. B, PART 10 - EXTRAVEHICULAR ENGINEERING ACTIVITIES. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17056.
VR-H9-30-000-00770*	ORL EXPERIMENT PROGRAM. VOL. B, PART 11 - ASTRONOMY/ASTROPHYSICS. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17057.
VR-H9-30-000-00773*	ORL EXPERIMENT PROGRAM. VOL. C - GUIDELINES FOR COMPREHENSIVE FLIGHT PROGRAM. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17060.
VR-H9-30-000-00774*	ORL EXPERIMENT PROGRAM. VOL. D - SUMMARY OF RESULTS. IBM CORP., FEDERAL SYSTEMS DIV., ROCKVILLE, MD. FEB. 1966. CONTRACT NUMBER NASW-1215. STAR N66-17063.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00778*	TEXTURAL CHARACTERISTICS OF MODERN BLACK AND WHITE AERIAL FILMS AND THEIR EFFECT ON IMAGE DEFINITION. V.Y. MIKHAILOVA CENTRAL SCIENTIFIC-RESEARCH INSTITUTE OF GEODESY, USSR, PUBLISHED IN GEODESY AND AEROPHOTOGRAPHY, NO. 3, 1965, PP.191-194.
NR-H9-30-000-00780*	THE EFFECTS OF MOTION ON RESOLUTION. TIMOTHY TROTT, THE AEROFLEX CORP., LONG ISLAND CITY, N.Y. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 26, NO. 3, 1960. PP.819-827.
NR-H9-30-000-00784*	LIMITING RESOLUTION LOOKING DOWN THROUGH THE ATMOSPHERE. D.L. FRIED, NORTH AMERICAN AVIATION, INC., THOUSAND OAKS, CALIFORNIA. PUBLISHED IN OPTICAL SOCIETY OF AMERICA, VOL. 56, NO. 10, OCTOBER 1966. PP.1380-1384
NR-H9-30-000-00785*	FACTORS AFFECTING THE RECOGNITION OF SMALL, LOW-CONTRAST PHOTOGRAPHIC IMAGES. ROBERT S. BARROWS, EASTMAN KODAK CO., ROCHESTER, N.Y. PUBLISHED IN PHOTOGRAPHIC SCIENCE AND ENGINEERING, VOL. 1, NO. 1, JULY 1957. PP.15-22.
NR-H9-30-000-00789*	INFERENCE OF PROPERTIES OF THE EARTH FROM SATELLITE MEASUREMENTS OF INFRARED EMISSION. REPORT NO. NASA TM-X-55910. W. NORDBERG, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. AUGUST 1967. STAR N67-36612.
NR-H9-30-000-00790*	AN EXPERIMENTAL DETERMINATION OF THE DEPOLARIZATION OF SCATTERED LASER LIGHT BY ATMOSPHERIC AIR. ARIEL COHEN, ET AL., HEBREW UNIVERSITY, JERUSALEM, ISRAEL. PUBLISHED IN JOURNAL OF APPLIED METEOROLOGY, VOL. 8, NO. 6, DEC. 1969. PP.952-954.
NR-H9-30-000-00792*	AIR RECONNAISSANCE IN THE ROYAL AIR FORCE PAST, PRESENT AND FUTURE. THE PRINCIPLES, AIRCRAFT, ASSOCIATED CAMERA AND AIRBORNE SENSOR SYSTEMS, GROUND SUPPORT FACILITIES AND INTELLIGENCE EXTRACTION METHODS. E.D. CREW, AOC, CENTRAL RECONNAISSANCE ESTABLISHMENT, GREAT BRITAIN. PUBLISHED IN THE AERONAUTICAL JOURNAL OF THE ROYAL AERONAUTICAL SOCIETY, VOL. 73, NO. 706, OCTOBER 1969. PP.869-880.
NR-H9-30-000-00793*	THE IMPORTANCE OF APPLICATION SATELLITES TO THE EUROPEAN ECONOMY. R.C. CURNOW, SCIENCE POLICY RESEARCH UNIT, UNIVERSITY OF SUSSEX, ENGLAND. PUBLISHED IN THE ROYAL AERONAUTICAL SOCIETY, VOL. 73, NO. 700, APRIL 1969. PP.306-310.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-00-000-00794*	DATA UTILIZATION FROM METEOROLOGICAL SATELLITES. CLIFFORD A. SPOHN, NATIONAL ENVIRONMENTAL SATELLITE CENTER, SUITLAND, MD. PUBLISHED IN THE TRANSACTIONS OF THE NEW YORK ACADEMY OF SCIENCES, SER. II, VOL. 31, NO. 8, DEC. 1969. PP.1103-1105.
VR-H9-00-000-00795*	TWILIGHTS AND STRATOSPHERIC DUST BEFORE AND AFTER THE AGUNG ERUPTION. F.E. VOLZ, AIR FORCE CAMBRIDGE RESEARCH LAB., BEDFORD, MASS. PUBLISHED IN APPLIED OPTICS, VOL. 8, NO. 12, DECEMBER 1969. PP.2505-2518.
VR-H9-00-000-00796*	PRACTICAL UTILIZATION OF DATA OF METEOROLOGICAL SATELLITES. NASA-CR-83393. K. YA. KONDRATYEV, ET AL., RUSSIA. CONTRACT NUMBER NAS5-12487. 1966. MICROFICHE COPY. STAR N67-22437.
VR-H9-00-000-00799*	THE REMOTE SENSING OF EARTH RESOURCES FROM ORBITING VEHICLES. A.N. SILVER, MARTIN MARIETTA CORP., DENVER DIV., DENVER, COLORADO. PRESENTED AT OPERATIONS RESEARCH SOCIETY OF AMERICA, NATIONAL MEETING, 36TH, MIAMI BEACH, FLA., NOV. 1969. MICROFICHE COPY.
VR-H9-EJ-998-00801*	GEOSCIENCE APPLICATIONS OF RADAR SENSORS. J.W. ROUSE, H.C. MACDONALD, AND W.P. WAITE, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, REMOTE SENSING LAB., LAWRENCE, KANSAS. REPRINTED FROM IEEE TRANSACTIONS, GEOSCIENCE ELECTRONICS, VOL. GE-7, NO. 1, JAN. 1969. PP.2-19.
VR-H9-00-000-00803*	EFFECTS OF INFORMATION REQUIREMENTS, TIMING PROCEDURES, AND PHOTO SCALE ON INTERPRETER PERFORMANCE. THOMAS E. JEFFREY, SUPPORT SYSTEMS RESEARCH DIV., ARMY BEHAVIORAL SCIENCE RESEARCH LAB., ARLINGTON, VA. JULY 1969. MICROFICHE COPY. STAR N70-12715.
VR-H9-00-000-00804*	AUTOMATIC MAINTENANCE OF LINEAR OVERLAP IN AERIAL PHOTOGRAPHS. I.V. ALMAZOV, USSR. EDITED TRANSLATION OF GEODEZIYA I KARTOGRAFIYA, NO. 4, 1967, PP.42-48. MICROFICHE COPY.
VR-H9-00-000-00805*	STATISTICAL PROPERTIES OF RADAR SIGNALS FROM EXTENDED SURFACES IN SYSTEMS WITH INTERNAL COHERENCE. V.V. TSVETNOV, USSR. EDITED TRANSLATION OF AVIATIONNYI INSTITUT, MOSCOW, NO. 1, 1966, PP.5-26. MICROFICHE COPY.
VR-H9-00-000-00810*	TEAM INTERPRETATION PROCEDURES, SELECTION OF TEAMMATES AND ROLE ASSIGNMENT. ROBERT SADACCA, J.S. ARMY BEHAVIORAL SCIENCE RESEARCH LAB., ARLINGTON, VA. JANUARY 1969. CONTRACT NO. DA-49-092-ARO-65. MICROFICHE COPY.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00811*	THE TWO-DIMENSIONAL INVERSE SCATTERING PROBLEM. INTERIM REPORT. WILLIAM A. IMBRIALE AND RAJ MITTRA, ILLINOIS UNIV., ANTENNA LAB., URBANA, ILL. MAY 1969. CONTRACT NUMBER F19628-69-C-0015. MICROFICHE COPY. STAR N69-39560.
VR-H9-30-000-00812*	ON THE EVALUATION OF STRONGLY ENLARGED PHOTOGRAPHS. REPORT NO. ARL-60-275. KARL G. GUDERLEY AND MARY D. LUM, AERO-NAUTICAL RESEARCH LAB., WRIGHT-PATTERSON AFB, OHIO. FEBRUARY 1961. MICROFICHE COPY.
VR-H9-30-000-00813*	AN INVESTIGATION OF TWO FACTORS IN THE INFRARED ENVIRONMENT OF AN ARTIFICIAL SATELLITE. M. DOWNING, ET AL., GENERAL DYNAMICS CORP., SAN DIEGO, CALIFORNIA. APRIL 1960. MICROFICHE COPY.
VR-H9-30-000-00814*	CHANGE DETECTION IN AERIAL PHOTO COVERAGE AS INFLUENCED BY METHODS OF COMPARISON. C.L. KLINGBERG, ET AL., BOEING CO., SEATTLE, WASHINGTON. JAN. 1969. CONTRACT NUMBER DA-49-092-ARO-92. MICROFICHE COPY. STAR N70-11566.
VR-H9-30-000-00815*	PHYSICAL PRINCIPLES AND TECHNICAL MEANS OF AERIAL SURVEYING. CHAPTERS IV AND V. A.I. VINOGRADOVA, ET AL., RUSSIA. TRANSLATION OF FIZICHESKIE OSNOVY, TEKHNICHESKIE SREDSTVA AEROMETOV, LENINGRAD, 1967, PP.72-147. MICROFICHE COPY.
VR-H9-30-000-00818*	PSEUDOCOLOR AS A MEANS OF IMAGE ENHANCEMENT. REPORT NO. P-3988. JOSEPH J. SHEPPARD, JR., ROY H. STRATTON, ET AL., RAND CORP., SANTA MONICA, CALIFORNIA. PRESENTED AT THE ANNUAL MEETING OF THE AMERICAN ACADEMY OF OPTOMETRY, BEVERLY HILLS, CALIFORNIA. DEC. 1968.
VR-H9-30-000-00819*	SENSORES REMOTOS Y SATELITES PARA LA OBSERVACION DE LOS RECURSOS NATURALES DE LA TIERRA. (REMOTE SENSORS AND SATELLITES FOR THE OBSERVATION OF THOSE NATURAL RESOURCES OF THE EARTH) WILLIAM D. CARTER, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PRESENTED AT THE 8TH CONGRESS OF ENGINEERS OF VENEZUELA, LA INGENIERIA Y EL DESARROLLO, EN CARACAS, VENEZUELA, MAY 1969. STAR N69-40761.
VR-H9-30-000-00820*	REPORT OF THE MOUNT HALEAKALA OBSERVATORY - A PHOTOGRAPHIC STUDY OF APOLLO 9. REPORT NO. 1386-25-T. WAYNE PARSONS AND JOSEPH HEATH, UNIVERSITY OF MICHIGAN, WILLOW RUN LAB., ANN ARBOR, MICHIGAN. DEC. 1969. CONTRACT NUMBER DAHC 15-68-C-0144.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00821*	ANALYTIC AERIAL TRIANGULATION FOR HIGHWAY LOCATION AND DESIGN. H.M. KARARA AND G.W. MARKS, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS. JULY 1969. ILLINOIS COOPERATIVE HIGHWAY RESEARCH PROGRAM SERIES NO. 100, CIVIL ENGINEERING STUDIES PHOTOGRAMMETRY SERIES NO. 22.
VR-H9-30-000-00827*	MEASUREMENT OF UPPER-AIR POLLUTION. OPTICAL PHYSICS LAB., AIR FORCE CAMBRIDGE RESEARCH LAB., BEDFORD, MASS. PUBLISHED IN OAR RESEARCH REVIEW, VOL. 9, NO. 1, JAN./FEB. 1970. PP.20-21.
VR-H9-30-000-00828*	OBSERVATIONS OF IONOSPHERIC MOVEMENTS BY THE USE OF A LARGE AERIAL ARRAY. B.H. BRIGGS, DEPT. OF PHYSICS, UNIVERSITY OF ADELAIDE, SOUTH AUSTRALIA. PUBLISHED IN OAR RESEARCH REVIEW, VOL. 9, NO. 1, JAN./FEB. 1970. PP.21-23.
VR-H9-30-000-00829*	ON THE ROLE OF VERTICAL TEMPERATURE AND HUMIDITY PROFILES IN THE DETERMINATION OF THE EARTH'S SURFACE TEMPERATURE FROM OUTGOING RADIATION. V.G. BOLDYREV, ET AL., USSR. PUBLISHED IN IZVESTIYA ACADEMY OF SCIENCES, USSR, ATMOSPHERIC AND OCEANIC PHYSICS, VOL. 1, 1965. PP.406-411.
VR-H9-30-000-00830*	CALCULATION OF THE TRANSMISSION FUNCTIONS OF THE ATMOSPHERE IN THE 8-12 MICRON REGION OF THE SPECTRUM FOR THE NORTHERN HEMISPHERE. V.G. BOLDYREV, USSR. PUBLISHED IN IZVESTIYA ACADEMY OF SCIENCES, USSR, ATMOSPHERIC AND OCEANIC PHYSICS, VOL. 1, 1965. PP.401-405.
VR-H9-30-000-00831*	SOME RESULTS OF SURFACE MEASUREMENTS OF THE INFRARED ABSORPTION AND THERMAL RADIATION SPECTRA OF THE ATMOSPHERE. K. YA. KONDRATEV, USSR. PUBLISHED IN IZVESTIYA ACADEMY OF SCIENCES, USSR, ATMOSPHERIC AND OCEANIC PHYSICS, VOL. 1, 1965. PP.215-222.
VR-H9-30-000-00832*	INTERPRETATION OF COLORS BY A TELEVISION SCANNING AND WAVEFORM SYSTEM APPLIED TO GEOGRAPHIC ANALYSIS OF MULTISENSOR IMAGERY. TECHNICAL REPORT NO. 8. WILLARD A. LARSON, WILLIAM H. KUYPER, AND JAMES P. LUTMAN, FLORIDA ATLANTIC UNIVERSITY, DEPT. OF GEOGRAPHY, BOCA RATON, FLORIDA, SEPTEMBER 1969. CONTRACT NO. NONR 4761(00).
VR-H9-30-000-00833*	A TREATISE ON ANALYTICAL PHOTOGRAMMETRY. LECTURE NOTES. PHOTOGRAMMETRY SERIES NO. 10. GIUSEPPE INGHILLERI, INSTITUTE OF TOPOGRAPHY AND GEODESY, POLITECNICO DI TORINO, ITALY. UNIVERSITY OF ILLINOIS, DEPT. OF CIVIL ENGINEERING, URBANA, ILLINOIS. SEPT. 1968.



## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-3L-000-00834*	THE ATTENUATION AND BACKSCATTERING OF INFRARED RADIATION BY ICE FOG AND WATER FOG. REPORT NO. CRREL-RR-264, MOTOI KUMAI AND JACK D. RUSSELL, ARMY COLD REGIONS RESEARCH AND ENGINEERING LAB., HANOVER, N.H. APRIL 1969. STAR N69-37933
VR-H9-30-000-00837*	ERWEITERTE GRUNDLAGEN DER HOLOGRAFIE. (FUNDAMENTALS OF HOLOGRAPHY). FRITZ BESTENREINER, AGFA-GEVAERT AG, LEVERKUSEN, WEST GERMANY. PUBLISHED IN ELEKTRONIK, VOL. 18, HEFT 9, SEPT. 1969. PP.279-284. (IN GERMAN)
VR-H9-30-000-00838*	L'ANALYSEUR D'IMAGES 'CALIFE'. (THE 'CALIFE' IMAGE ANALYZER). Y. NOURISSAT, LABORATOIRE CENTRAL DE L'ARMEMENT, ARCEUIL, VAL-DE-MARNE, FRANCE. PUBLISHED IN L'ONDE ELECTRIQUE, VOL. 49, SEPT. 1969. PP.862-873. (IN FRENCH)
VR-H9-30-000-00839*	AUTOMATION IN PHOTOGRAMMETRIC COMPILATION. WALTER E. CHAPPELLE, ARLISS E. WHITESIDE, ET AL., BENDIX RESEARCH LAB., SOUTHFIELD, MICHIGAN. PUBLISHED IN S.P.I.E. JOURNAL, VOL. 7, JULY 1969. PP.137-149.
VR-H9-30-000-00840*	ACTIVE VIBRATION ISOLATION OF AERIAL CAMERAS. JEROME S. PEPI, BARRY RESEARCH AND DEVELOPMENT, BARRY CONTROLS, WATERTOWN, MASS. PRESENTED AT NEW HORIZONS, INSTITUTE OF ENVIRONMENTAL SCIENCES ANNUAL TECHNICAL MEETING (14TH), ST. LOUIS, MO., APRIL/MAY 1968. PROCEEDINGS, PP.389-399.
VR-H9-30-000-00841*	REMOTE SENSING OF WINDS AND ATMOSPHERIC TURBULENCE BY CROSS-CORRELATION OF PASSIVE OPTICAL SIGNALS. A.J. MONTGOMERY, IIT RESEARCH INSTITUTE, CHICAGO, ILL. PUBLISHED IN SPACE SCIENCE REVIEWS, VOL. 10, NO. 2, NOV. 1969. PP.291-313.
VR-H9-30-000-00842*	THE METEOROLOGY AND VERTICAL DISTRIBUTION OF POLLUTANTS IN AIR POLLUTION EPISODES IN PHILADELPHIA. FRANCIS K. DAVIS, AND HERMAN NEWSTEIN, DREXEL INSTITUTE OF TECHNOLOGY AND WFIL-TV, PHILADELPHIA, PA. PUBLISHED IN ATMOSPHERIC ENVIRONMENT, VOL. 2, NO. 6, NOV. 1968. PP.559-574.
VR-H9-30-000-00844*	SPACE RESEARCH AND A BETTER EARTH. THOMAS O. PAINE, NASA/ HEADQUARTERS, WASHINGTON, D.C. PUBLISHED IN IMPACT OF SCIENCE ON SOCIETY, VOL. 19, NO. 2, APR/JUNE 1969. PP.123-134.
VR-H9-EJ-998-00847*	ORBITAL IMAGES FOR EARTH RESOURCES SATELLITE MISSION PLANNING. FRANK J. WOBBER, IBM FEDERAL SYSTEMS DIV. GAITHERSBURG, MARYLAND. TECHNICAL PAPER PRESENTED TO THE EARTH RESOURCES SURVEY SATELLITE SUMMER SCHOOL, CAMBRIDGE, ENGLAND, JULY 1969. STAR N70-11277.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-30-000-00848*	A SURVEY OF SENSORS FOR EARTH RESOURCES SENSING. GLENN A. CATO, TRW SYSTEMS GROUP, REDONDO BEACH, CALIFORNIA. PRE-PRINT OF PAPER FOR AIAA EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MD. MARCH 1970.
NR-H9-30-000-00867*	ELECTRICAL ANALOG FOR OPTICAL SYSTEMS - PARTS I AND II. STEPHEN W. MIKUL, HADRON, INC., WESTBURY, N.Y. PUBLISHED IN MICROWAVES, VOL. 8, NO. 9, SEPT. 1969, PP.94-103, VOL. 8, NO. 11, NOV. 1969, PP.116-122, AND VOL. 9, NO. 1, JAN. 1970, PP.76-81.
NR-H9-30-000-00869*	EFFECT OF LEAF PUBESCENCE OF GYNURA AURANTIACA ON LIGHT REFLECTANCE. HAROLD N. GAUSMAN, AND RUBEN CARDENAS, U.S. DEPT. OF AGRICULTURE, WESLACO, TEXAS. REPRINT FROM BOTANICAL GAZETTE, VOL. 130, NO. 3, SEPT. 1969. PP.158-162.
NR-H9-30-000-00872*	METEOROLOGICAL RESEARCH SATELLITES - NIMBUS D, R.W. PORTER, GENERAL ELECTRIC CO., VALLEY FORGE, PA. PUBLISHED IN AERONAUTICAL JOURNAL OF THE ROYAL AERONAUTICAL SOCIETY, VOL. 73, NO. 700, APRIL 1969. PP.288-297.
NR-H9-30-000-00887*	AN ANALYSIS OF METHODS FOR CALIBRATING THE 13.3 GHZ SCATTEROMETER. CRES TECHNICAL REPORT 177-1. G.A. BRADLEY, UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC., ENGINEERING SCIENCE DIV., LAWRENCE, KANSAS, DECEMBER 1969. CONTRACT NUMBER NAS9-10261.
NR-H9-30-000-00891*	HOLOGRAPHIC RECORDING OF FOCUSED IMAGES AND THEIR RECONSTRUCTION IN WHITE LIGHT. I.S. KLIMENKO, ET AL., USSR. PUBLISHED IN OPTIKA I SPEKTROSSKOPIIA, VOL. 26, JUNE 1969. PP.1019-1026. MICROFICHE COPY.
NR-H9-30-000-00893*	LIQUID LASERS. H. SAMELSON, ET AL., GENERAL TELEPHONE AND ELECTRONICS LAB., BAYSIDE, N.Y. PUBLISHED IN NAVAL RESEARCH REVIEWS, VOL. 23, NO. 1, JAN. 1970. PP.10-19.
NR-H9-30-000-00894*	THE ABSORPTION OF LASER RADIATION ALONG ATMOSPHERIC SLANT PATHS. GILBERT N. PLASS, TEXAS A + M UNIVERSITY, COLLEGE STATION, TEXAS. REPRINTED FROM APPLIED OPTICS, VOL. 5, NO. 1, JAN. 1966. PP.149-154.
NR-H9-30-000-00897*	ESTIMATING MAXIMUM WIND SPEED OF TROPICAL STORMS FROM HIGH RESOLUTION INFRARED DATA. REPORT NO. ESSA-TR-NESC-50. L.F. HUBERT, A. TIMCHALK, ET AL., ESSA, WASHINGTON, D.C. MAY 1969. STAR N70-10175.

## TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00898*	DEVELOPMENT OF FILTERS FOR THE FAR INFRARED, FINAL REPORT MAY 1964-DEC. 1968. REPORT NO. AFCL-69-0184, KARL D. MOELLER, FAIRLEIGH DICKINSON UNIVERSITY, TEANECK, NEW JERSEY. MAY 1969. CONTRACT NO. AF 19-(628)-4084.
VR-H9-EJ-994-00901*	GEOLOGIC ANALYSIS OF A MULTISPECTRALLY PROCESSED APOLLO SPACE PHOTOGRAPH, WILLIAM D. CARTER AND RICHARD F. MEYER, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PUBLISHED IN NEW HORIZONS IN COLOR AERIAL PHOTOGRAPHY, ASP/SPSE SEMINAR, NEW YORK CITY, JUNE 1969. STAR N70-10976.
VR-H9-30-000-00902*	BACKSCATTER ECHO FROM LAND AND SEA AT 16 MHZ. A. MIR, UNIVERSITY OF QUEENSLAND, DEPT. OF PHYSICS, ST. LUCIA, BRISBANE, AUSTRALIA, PUBLISHED IN AUSTRALIAN JOURNAL OF PHYSICS, VOL. 22, NO. 6, DEC. 1969, PP.757-766.
VR-H9-30-000-00926*	VIBRATION ISOLATION OF OPTICAL AERIAL RECONNAISSANCE SENSORS. JEROME S. PEFI, BARRY CONTROLS, WATERTOWN, MASS. OCTOBER 1967. MICROFICHE COPY.
VR-H9-30-000-00929*	METHODICAL APPROACH TO INTERPRETATION OF SPACECRAFT PHOTOGRAPHY OF HUMID AREAS, V.M. DEHAJ KULKARNI, K.J. SOMAIYA COLLEGE, BOMBAY, INDIA. PRESENTED AT THE NATO/BRITISH INTERPLANETARY SOCIETY, INTERNATIONAL SUMMER SCHOOL ON EARTH OBSERVATION SATELLITES, CAMBRIDGE, ENGLAND, JULY 1969, STAR N70-11060. MICROFICHE COPY.
VR-H9-30-000-00930*	TERRAIN TRAFFICABILITY EVALUATION USING AERIAL PHOTOGRAPHS-A MODIFIED APPROACH. A.R. NATARAJ, INTERNATIONAL INSTITUTE FOR AERIAL SURVEY AND EARTH SCIENCES, DELFT, NETHERLANDS. ITC PUBLICATIONS, SERIES B, NO. 52, JULY 1969. STAR N70-10520. MICROFICHE COPY.
VR-H9-30-000-00935*	AFA-TE AERIAL CAMERA WITH OPTICAL FIDUCIAL MARKS. V.B. ILIN, USSR. TRANSLATED FROM GEODEZIYA I KARTOGRAFIYA, 1968, PP.68-69. MICROFICHE COPY.
VR-H9-30-000-00936*	AN EXPERIMENT RELATIVE TO THE VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE. FINAL REPORT, MARCH 1966-MARCH 1969. R.T. BETTINGER AND J. BOHSE, UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND. JAN. 1970. STAR N69-41351. MICROFICHE COPY.
VR-H9-30-000-00937*	DETERMINING ATMOSPHERIC REFRACTION FROM THE DISPERSION OF LIGHT. RUDOLF BREIN, INSTITUT FÜR ANGEWANDT GEODÄSIE, FRANKFURT AM MAIN, WEST GERMANY, PUBLISHED IN NACHRICHTEN AUS DEM KARTEN-UND VERMESSUNGSWESEN, REIHE II, DEUTSCHE BEITRÄGE IN FREMDEN SPRACHEN, HEFT NR. 23, 1969. STAR N69-40337. MICROFICHE COPY.

TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
VR-H9-30-000-00972*	APOLLO 11 PHOTOGRAPHY INDEX, 70MM AND 16MM. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS.
VR-H9-30-000-00973*	APOLLO 12 PHOTOGRAPHY INDEX, 70MM AND 16MM. TECHNICAL WORKING PAPER, REPORT NO. LEC/HASD NO. TWP-69-044, LOCKHEED ELECTRONICS CO., HOUSTON, TEXAS. DECEMBER 1969. CONTRACT NUMBER NAS 9-5191.
VR-H9-30-000-00974*	APOLLO 9 PHOTOGRAPHIC PLOTTING AND INDEXING REPORT. (INCLUDING AIRCRAFT UNDERFLIGHTS). NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. AND LOCKHEED ELECTRONICS CO., HOUSTON, TEXAS. OCTOBER 1969. CONTRACT NUMBER NAS 9-5191.
VR-H9-3L-093-00977*	AIRBORNE OBSERVATIONS OF CLOUD PARTICLES AND INFRARED FLUX DENSITY (8-14 MICRONS) IN THE ARCTIC. HOWARD JOE WITTE, WASHINGTON UNIVERSITY, SEATTLE, WASHINGTON. NOVEMBER 1968. CONTRACT NO. NONR 477(24). MICROFICHE COPY.
VR-H9-30-000-00978*	TARGET DETECTION AND RECOGNITION ON SINGLE VERSUS DUAL SENSOR DISPLAYS OF INFRARED AND SIDE-LOOKING RADAR. REPORT NO. AMRL-TR-68-127. JAMES L. PORTERFIELD AND ALMON J. BATE, AEROSPACE MEDICAL RESEARCH LAB., WRIGHT-PATTERSON AFB, OHIO FEB. 1969. STAR N69-40223. MICROFICHE COPY.
VR-H9-30-000-00980*	SMALL SIZE AERIAL CAMERA AFA-MIIGAIAK. B.V. RODIONOV, USSR. TRANSLATION OF INSTITUT INZHENEROV GEODEZII, AEROFOTOS YEMKI I KARTOGRAFII. TRUDY (MOSCOW), NO. 45, 1961, PP.9-11, STAR N69-32950. MICROFICHE COPY.
VR-H9-30-000-01012*	APOLLO 12 MISSION REPORT. REPORT NO. MSC-01855. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. MARCH 1970.
VR-H9-3J-998-01029*	APOLLO 9 MULTISPECTRAL PHOTOGRAPHIC INFORMATION. REPORT NO. NASA TM X-1957. COMPILED BY JOHN L. KALTENBACH, NASA/ MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. APRIL 1970. CONTRACT NUMBER 160-75-02-03-72.
VR-H9-3K-000-01036*	A SYSTEM ANALYSIS OF APPLICATIONS OF EARTH ORBITAL SPACE TECHNOLOGY TO SELECTED CASES IN WATER MANAGEMENT AND AGRICULTURE. ALLAN MUIR, EARTHSAT CORP., WASHINGTON, D.C. PRESENTED AT AIAA EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MD., MARCH 1970. AIAA PAPER NO. 70-339.

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ACCESSION NUMBER

DESCRIPTION

VR-H9-00-000-01038\* RADAR SCATTEROMETRY. CRES TECHNICAL REPORT 118-15.  
R.K. MOORE AND W.P. WAITE, UNIVERSITY OF KANSAS, CENTER FOR  
RESEARCH, ENGINEERING SCIENCE DIVISION, LAWRENCE, KANSAS.  
JANUARY 1969. CONTRACT NUMBER NAS9-7175.

# PROGRAM DOCUMENTS

**PROGRAM DOCUMENTS**  
**SECTION 09 TECHNICAL REPORTS**

## TECHNICAL REPORTS - PROGRAM DOCUMENTS

ACCESSION NUMBER	DESCRIPTION
VR-P9-30-000-00089*	THE ANALYSIS OF EARTH'S RESOURCES USING SPACE PHOTOGRAPHY. ROBERT N. COLWELL, UNIVERSITY OF CALIFORNIA, FORESTRY REMOTE SENSING LAB, BERKELEY, CALIFORNIA. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO, OCTOBER 1969. PAPER AAS 69-572. MICROFICHE COPY.
VR-P9-30-000-00101*	REMOTE SENSING INVESTIGATIONS FROM SPACECRAFT AND AIRCRAFT. W.T. PECORA, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PRESENTED AT AMERICAN GEOPHYSICAL UNION AND MARINE TECHNOLOGY SOCIETY, SYMPOSIUM, WASHINGTON, D.C. APRIL 1969. MICROFICHE COPY.
VR-P9-30-000-00200*	ATMOSPHERIC ENVIRONMENT - PROBLEMS OF REMOTE SENSING OF THE EARTH'S SURFACE. MORRIS TEPPER, NASA/WASHINGTON, D.C. PRESENTED AT AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS, AEROSPACE SCIENCES MEETING, 8TH, NEW YORK, N.Y. PAPER NO. 70-193.
VR-P9-30-000-00817*	APOLLO EARTH PHOTOGRAPHS. INDEX MAPS - APOLLO MISSIONS 6, 7, AND 9. NASA/MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. MAY 1970.
VR-P9-EJ-998-00824*	RADAR SCATTEROMETER DATA ANALYSIS. NASA/MSC MISSION 73. SITE 130, SOUTHERN CALIFORNIA. TECHNICAL REPORT RSC-01. JOHN W. ROUSE, JR., TEXAS A + M UNIVERSITY, REMOTE SENSING CENTER, COLLEGE STATION, TEXAS. MAY 1969.
VR-P9-30-000-00825*	INFRARED DETECTION OF CONCRETE DETERIORATION. TECHNICAL REPORT RSC-02. R.H. ARNOLD, W.L. FURR, AND J.W. ROUSE, JR., TEXAS A + M UNIVERSITY, REMOTE SENSING CENTER, COLLEGE STATION, TEXAS. JULY 1969.
VR-P9-30-000-00826*	DISCUSSION OF THE LEAST SQUARES TECHNIQUE AND DEVELOPMENT - A CURVE FITTING SUBROUTINE. TECHNICAL REPORT RSC-04. T.A. EPPES, TEXAS A + M UNIVERSITY, REMOTE SENSING CENTER, COLLEGE STATION, TEXAS. T.A. EPPES, TEXAS A + M UNIVERSITY REMOTE SENSING CENTER, COLLEGE STATION, TEXAS. SEPT. 1969.
VR-P9-30-000-00836*	BI-DIRECTIONAL SCATTERING CHARACTERISTICS OF HEALTHY GREEN SOYBEAN AND CORN LEAVES IN VIVO. LABS INFORMATION NOTE-033169. HARRY T. BREECE, III AND ROGER A. HOLMES, PURDUE UNIVERSITY, SCHOOL OF ELECTRICAL ENGINEERING, LAFAYETTE, INDIANA. APRIL 1969. CONTRACT NUMBERS 12-14-100-8926(20), 12-14-100-9502(20), AND 12-14-100-9549(20).



TECHNICAL REPORTS - PROGRAM DOCUMENTS

ACCESSION NUMBER

DESCRIPTION

NR-P9-30-000-00849\* AN INTRODUCTION TO PHOTOGRAPHY IN THE EARTH SCIENCES.  
TECHNICAL NOTE, REPORT NO. DTN-69-11, KEITH R. ERB AND  
DAVID J. KELCH, DATA CCRP., DAYTON, OHIO. NOV. 1969.  
CONTRACT NO. NA89-7003.

## **PART II - FUNCTIONAL AND CHECK-OUT DATA**

## **SECTION 10 - INFLIGHT RECORDS**

## INFLIGHT RECORDS

ACCESSION NUMBER	MISSION	FLIGHT SITES	DATE	COMMENTS
NR-10-JK-087-00001	022	087	16-21 APR 66	POSTFLIGHT
NR-10-EJ-998-00002	029	130 040	8-11 AUG 66	PREFLIGHT/POSTFLIGHT
NR-10-JK-040-00003	029	4,5,6 040	11-12 AUG 66	PREFLIGHT/POSTFLIGHT
NR-10-JJ-998-00004	030	1,2,3, 4,5 019 003 020 135	30 AUG 66 THROUGH 1 SEP 66	PREFLIGHT/POSTFLIGHT
NR-10-EJ-052-00005	030	6,7 052	3 SEP 66	PREFLIGHT/POSTFLIGHT
NR-10-EJ-998-00006	032	1,2,3, 4,5 076 011	19-22 SEP 66	PREFLIGHT/POSTFLIGHT
NR-10-GJ-046-00007	034	1,2 046	11-12 OCT 66	PREFLIGHT/POSTFLIGHT
NR-10-JO-000-00008	034	2	12 OCT 66	POSTFLIGHT
NR-10-GH-099-00009	034	3 099	13 OCT 66	PREFLIGHT/POSTFLIGHT
NR-10-GH-099-00010	034	4 099	13 OCT 66	PREFLIGHT/POSTFLIGHT
NR-10-GH-099-00011	034	5 099	14 OCT 66	PREFLIGHT/POSTFLIGHT
NR-10-GH-128-00012	034	7 128	17 OCT 66	PREFLIGHT/POSTFLIGHT
NR-10-IJ-086-00013	038	2 086	23 JAN 67	PREFLIGHT/POSTFLIGHT
NR-10-IJ-086-00014	038	4,5 086	25-27 JAN 67	PREFLIGHT/POSTFLIGHT
NR-10-IJ-086-00015	038	1 086	22 JAN 67	
NR-10-GH-099-00016	040	1,2 099	21 FEB 67	PREFLIGHT/POSTFLIGHT
NR-10-GH-099-00017	040	3 099	22 FEB 67	PREFLIGHT
NR-10-GH-998-00018	040	3,4 099 103 104	22-23 FEB 67	POSTFLIGHT
NR-10-GJ-102-00019	040	4 102	23 FEB 67	

## INFLIGHT RECORDS

ACCESSION NUMBER	MISSION	FLIGHT	SITES	DATE	COMMENTS
NR-13-GH-128-00020	041	1,2,3, 4	128	24 FEB 67	PREFLIGHT/POSTFLIGHT
NR-13-EJ-998-00021	043	1,2,3, 4	114 101 029 014	14-16 MAR 67	PREFLIGHT/POSTFLIGHT
NR-13-EJ-998-00022	044	1,2	051 052	21 MAR 67	PREFLIGHT/POSTFLIGHT
NR-13-EJ-051-00023	044	3	051	21 MAR 67	PREFLIGHT/POSTFLIGHT
NR-13-EJ-998-00024	044	4,5,7	154 002 052	22-24 MAR 67	PREFLIGHT/POSTFLIGHT
NR-13-GH-998-00025	050	1,2,3, 4,5,6	128 099 108 095	12-16 JUN 67	PREFLIGHT/POSTFLIGHT SPECIAL PREFLIGHT
NR-13-FH-032-00026	051	1	032	23 JUN 67	
NR-13-FH-032-00027	951	1,2	032	6 JUL 67	PREFLIGHT/POSTFLIGHT
NR-13-GJ-C44-00028	052	1,2	044	29 JUN 67	PREFLIGHT/POSTFLIGHT
NR-13-FH-032-00029	053	1,2	032	6 JUL 67	PREFLIGHT/POSTFLIGHT
NR-13-JJ-C56-00030	055	5	056	17 AUG 67	PREFLIGHT/POSTFLIGHT
NR-13-JJ-C56-00031	055	6	056	18 AUG 67	PREFLIGHT/POSTFLIGHT
NR-13-FH-158-00032	057	1	158	18 SEP 67	PREFLIGHT/POSTFLIGHT
NR-13-FH-158-00033	057	2	158	19 SEP 67	PREFLIGHT/POSTFLIGHT
NR-13-GH-146-00034	057	4	146	21 SEP 67	PREFLIGHT/POSTFLIGHT
NR-13-GH-146-00035	057	5	146	21 SEP 67	PREFLIGHT/POSTFLIGHT
NR-13-EJ-051-00036	059	6,7,8	051	20-21 OCT 67	PREFLIGHT/POSTFLIGHT
NR-13-JK-160-00037	060	1,2	160	31 OCT 67	PREFLIGHT/POSTFLIGHT

## INFLIGHT RECORDS

ACCESSION NUMBER	MISSION	FLIGHT	SITES	DATE	COMMENTS
NR-10-FJ-129-00038	061	1	129	13 NOV 67	PREFLIGHT/POSTFLIGHT
NR-10-FJ-129-00039	061	2	129	14 NOV 67	PREFLIGHT/POSTFLIGHT
NR-10-GJ-141-00040	061	8	141	17 NOV 67	PREFLIGHT/POSTFLIGHT
NR-10-FH-175-00041	061	FCF	175	9 NOV 67	PREFLIGHT/POSTFLIGHT
NR-10-FH-032-00042	062	1,2	032	4 DEC 67	PREFLIGHT/POSTFLIGHT
NR-10-GH-128-00043	066	1	128	5 FEB 68	PREFLIGHT/POSTFLIGHT
NR-10-GH-998-00044	066	2	162 163	6 FEB 68	PREFLIGHT
NR-10-GH-164-00045	066	3	164	7 FEB 68	PREFLIGHT/POSTFLIGHT
NR-10-GH-162-00046	066	6	162	8 FEB 68	PREFLIGHT
NR-10-GH-998-00047	066	7	162 163	8 FEB 68	PREFLIGHT
NR-10-GH-163-00048	066	9	163	9 FEB 68	PREFLIGHT/POSTFLIGHT
NR-10-GH-128-00049	066	11	128	10 FEB 68	PREFLIGHT/POSTFLIGHT
NR-10-GH-145-00050	067	3	145	27 FEB 68	PREFLIGHT/POSTFLIGHT
NR-10-GH-147-00051	067	5	147	28 FEB 68	PREFLIGHT
NR-10-GJ-165-00052	067	7,8	165	1 MAR 68	PREFLIGHT/POSTFLIGHT
NR-10-GH-145-00053	067	9	145	2 MAR 68	PREFLIGHT/POSTFLIGHT
NR-10-EJ-998-00054	073	1	130 027 157	21 MAY 68	PREFLIGHT/POSTFLIGHT
NR-10-EJ-998-00055	073	2	130 157	22 MAY 68	PREFLIGHT/POSTFLIGHT
NR-10-EJ-998-00056	073	3	157 130	23 MAY 68	PREFLIGHT/POSTFLIGHT
NR-10-EJ-027-00057	073	4	027	23 MAY 68	PREFLIGHT/POSTFLIGHT

## INFLIGHT RECORDS

ACCESSION NUMBER	MISSION	FLIGHT	SITES	DATE	COMMENTS
NR-10-EJ-998-00058	073	5	130 157	24 MAY 68	PREFLIGHT/POSTFLIGHT
NR-10-EJ-130-00059	073	6	130	24 MAY 68	PREFLIGHT/POSTFLIGHT
NR-10-EJ-072-00060	073	7	072	25 MAY 68	PREFLIGHT/POSTFLIGHT
NR-10-EJ-072-00061	073	8	072	25 MAY 68	PREFLIGHT/POSTFLIGHT
NR-10-EJ-072-00062	073	9	072	26 MAY 68	PREFLIGHT/POSTFLIGHT
NR-10-FH-032-00063	075	3	032	8 JUL 68	PREFLIGHT/POSTFLIGHT CALIBRATION PANEL
NR-10-EJ-998-00064	076	1	075 022	16 JUL 68	PREFLIGHT/POSTFLIGHT
NR-10-EJ-075-00065	076	2	075	16 JUL 68	PREFLIGHT/POSTFLIGHT
NR-10-EJ-075-00066	076	3	075	17 JUL 68	PREFLIGHT/POSTFLIGHT
NR-10-JJ-056-00067	076	4	056	18 JUL 68	PREFLIGHT/POSTFLIGHT
NR-10-JJ-056-00068	076	5	056	19 JUL 68	PREFLIGHT/POSTFLIGHT
NR-10-GJ-044-00069	077	2	044	30 JUL 68	PREFLIGHT/POSTFLIGHT
NR-10-FK-118-00070	080	5	118	26 SEP 68	PREFLIGHT/POSTFLIGHT
NR-10-GH-998-00071	081	6	146 147	11 OCT 68	PREFLIGHT/POSTFLIGHT
NR-10-FJ-178-00072	084	2	178	19 DEC 68	PREFLIGHT/POSTFLIGHT
NR-10-FJ-178-00073	084	3	178	20 DEC 68	PREFLIGHT/POSTFLIGHT

## **PART III - IMAGERY DATA**



## **SECTIONS 20 TO 49 - IMAGERY DATA FILE**

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-20-EJ-029-00001	2 JUL 65	029	PHOENIX, ARIZONA	12	PLUS-X, IR	70 MM 400
VR-20-GJ-049-00002	28 SEP 65	049	DAVIS, CALIFORNIA	13	PLUS-X, IR	70 MM 170
VR-20-GJ-048-00003	28 SEP 65	048	SAN PABLO RESERVOIR, CALIFORNIA	13	PLUS-X, IR	70 MM 170
VR-20-GJ-050-00004	28 SEP 65	050	DONNER PASS, CALIFORNIA	13	PLUS-X, IR	70 MM 170
VR-20-JK-040-00005	28 SEP 65	040	CASCADE MOUNTAINS, WASHINGTON	13	PLUS-X, IR	70 MM 200
VR-20-EJ-003-00006	2 OCT 65	003	MONO CRATERS, CALIFORNIA	13	PLUS-X	70 MM 250
VR-20-GJ-046-00007	15 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14	PLUS-X, IR	70 MM 250
VR-20-GJ-046-00008	17 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14	PLUS-X, IR	70 MM 250
VR-20-GJ-043-00009	17 NOV 65	043	CHICAGO, ILLINOIS	14	PLUS-X, IR	70 MM 250
VR-20-GJ-043-00010	19 NOV 65	043	CHICAGO, ILLINOIS	14	PLUS-X, IR	70 MM 250
VR-20-GJ-043-00011	19 NOV 65	043	CHICAGO, ILLINOIS	14	PLUS-X, IR	70 MM 250
VR-20-GH-032-00012	22 DEC 65	032	MELASCO, TEXAS	16	PLUS-X, IR	70 MM 250
VR-20-GH-032-00013	5 JAN 66	032	MELASCO, TEXAS	17	PLUS-X, IR	70 MM 200
VR-20-EJ-029-00014	15 FEB 66	029	PHOENIX, ARIZONA	19	PLUS-X, IR	70 MM 750
VR-20-GJ-086-00015	10 MAR 66	086	ARGUS ISLE, BERMUDA	20	PLUS-X, IR	70 MM 250
VR-20-GJ-086-00016	10 MAR 66	086	ARGUS ISLE, BERMUDA	20	PLUS-X, IR	70 MM 250
VR-20-GJ-086-00017	10 MAR 66	086	ARGUS ISLE, BERMUDA	20	PLUS-X, IR	70 MM 250
VR-20-JK-087-00018	19 APR 66	087	GOOSE BAY, LABRADOR	22	PLUS-X, IR	70 MM 250
VR-20-JK-087-00019	21 APR 66	087	GOOSE BAY, LABRADOR	22	PLUS-X	70 MM 250
VR-20-GH-107-00020	9 MAY 66	107	CAPE SABLE SURMARINE SPRING, FLA.	23	PLUS-X, IR	70 MM 250
VR-20-GH-108-00021	9 MAY 66	108	CUTLER AREA SUBMARINE SPRING, FLA.	23	PLUS-X, IR	70 MM 250
VR-20-GH-095-00022	9 MAY 66	095	EVERGLADES, FLORIDA	23	PLUS-X, IR	70 MM 250

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-20-GH-098-00023	9 MAY 66	098	HOMESTEAD, FLORIDA	23	PLUS-X, IR	70 MM 250
VR-20-GH-106-00024	10 MAY 66	106	CLEARWATER/NAPLES SUBMARINE SPRING, FLORIDA.	23	PLUS-X, IR	70 MM 250
VR-20-GH-107-00025	10 MAY 66	107	CAPE SABLE SUBMARINE SPRING, FLA.	23	PLUS-X, IR	70 MM 250
VR-20-GH-000-00026	9 MAY 66	000	MIAMI REEF	23	PLUS-X, IR	70 MM 250
VR-20-GJ-046-00027	7-10 MAY 66	046	ASHEVILLE, NORTH CAROLINA	23	PLUS-X, IR	70 MM 1500
VR-20-GH-106-00028	11 MAY 66	106	CLEARWATER-NAPLES SUBMARINE SPRING, FLORIDA.	23	PLUS-X, IR	70 MM 200
VR-20-GH-095-00029	11 MAY 66	095	EVERGLADES, FLORIDA	23	PLUS-X, IR	70 MM 200
VR-20-GH-105-00030	11 MAY 66	105	CRESCENT BEACH SUBMARINE SPRING	23	PLUS-X, IR	70 MM 200
VR-20-GH-108-00031	11 MAY 66	108	CUTLER AREA SUBMARINE SPRING, FLA.	23	PLUS-X, IR	70 MM 200
VR-20-GH-032-00032	14 MAY 66	032	WESLACO, TEXAS	24	PLUS-X, IR	70 MM 60
VR-20-GJ-043-00033	30 JUN 66	043	CHICAGO, ILLINOIS	25	PLUS-X, IR	70 MM 7500
VR-20-GJ-019-00034	30 AUG 66	019	SONORA PASS, CALIFORNIA	30	PLUS-X	70 MM 500
VR-20-GJ-020-00035	30 AUG 66	020	BUCKS LAKE, CALIFORNIA	30	PLUS-X	70 MM 500
VR-20-GJ-019-00036	30 AUG 66	019	SONORA PASS, CALIFORNIA	30	INFRARED	70 MM 250
VR-20-GJ-020-00037	30 AUG 66	020	BUCKS LAKE, CALIFORNIA	30	INFRARED	70 MM 250
VR-20-GJ-135-00038	1 SEP 66	135	HARVEY VALLEY, CALIFORNIA	30	PLUS-X	70 MM 1000
VR-20-GJ-135-00039	1 SEP 66	135	HARVEY VALLEY, CALIFORNIA	30	INFRARED	70 MM 500
VR-20-GJ-043-00040	15 SEP 66	043	CHICAGO, ILLINOIS	31	PLUS-X	70 MM 500
VR-20-GJ-043-00041	15 SEP 66	043	CHICAGO, ILLINOIS	31	INFRARED	70 MM 250
VR-20-GJ-011-00042	19-22 SEP 66	011	YELLOWSTONE NATIONAL PARK, WYOMING/ MONTANA/IDAHO	32	PLUS-X	70 MM 2500
VR-20-GJ-011-00043	19-22 SEP 66	011	YELLOWSTONE NATIONAL PARK, WYOMING/ MONTANA/IDAHO	32	INFRARED	70 MM 1250

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION		
VR-20-2J-046-00044	10-14 OCT 66	046	ASHEVILLE, NORTH CAROLINA	34	MULTIBAND	PLUS-X	70 MM 1600
VR-20-6H-099-00045	10-14 OCT 66	099	FLORIDA STRAITS	34	MULTIBAND	PLUS-X	70 MM 1600
VR-20-4J-138-00046	10-14 OCT 66	138	GULFSTREAM NORTH	34	MULTIBAND	PLUS-X	70 MM 1600
VR-20-6J-046-00047	10-14 OCT 66	046	ASHEVILLE, NORTH CAROLINA	34	MULTIBAND	INFRARED	70 MM 800
VR-20-6H-099-00048	10-14 OCT 66	099	FLORIDA STRAITS	34	MULTIBAND	INFRARED	70 MM 800
VR-20-4J-138-00049	10-14 OCT 66	138	GULFSTREAM NORTH	34	MULTIBAND	INFRARED	70 MM 800
VR-20-7H-032-00050	5 DEC 66	032	MELASCO, TEXAS	35	MULTIBAND	PLUS-X	70 MM 900
VR-20-7H-032-00051	5 DEC 66	032	MELASCO, TEXAS	35	MULTIBAND	INFRARED	70 MM 450
VR-20-3H-095-00052	9 DEC 66	095	EVERGLADES, FLORIDA	36	MULTIBAND	PLUS-X	70 MM 500
VR-20-6H-098-00053	9 DEC 66	098	HOMESTEAD, FLORIDA	36	MULTIBAND	PLUS-X	70 MM 500
VR-20-2J-102-00054	9 DEC 66	102	STATENVILLE/LAKE CITY, FLORIDA, PHOSPHATE	36	MULTIBAND	PLUS-X	70 MM 500
VR-20-6H-103-00055	9 DEC 66	103	CRYSTAL RIVER, FLORIDA	36	MULTIBAND	PLUS-X	70 MM 500
VR-20-6H-104-00056	9 DEC 66	104	WAUCHALA/TAMPA, FLORIDA	36	MULTIBAND	PLUS-X	70 MM 500
VR-20-3H-095-00057	9 DEC 66	095	EVERGLADES, FLORIDA	36	MULTIBAND	INFRARED	70 MM 250
VR-20-6H-098-00058	9 DEC 66	098	HOMESTEAD, FLORIDA	36	MULTIBAND	INFRARED	70 MM 250
VR-20-2J-102-00059	9 DEC 66	102	STATENVILLE/LAKE CITY, FLORIDA, PHOSPHATE	36	MULTIBAND	INFRARED	70 MM 250
VR-20-6H-103-00060	9 DEC 66	103	CRYSTAL RIVER, FLORIDA	36	MULTIBAND	INFRARED	70 MM 250
VR-20-6H-104-00061	9 DEC 66	104	WAUCHALA/TAMPA, FLORIDA	36	MULTIBAND	INFRARED	70 MM 250
VR-20-6H-095-00062	9 DEC 66	095	EVERGLADES, FLORIDA	36	MULTIBAND	PLUS-X	70 MM 350
VR-20-6H-095-00063	9 DEC 66	095	EVERGLADES, FLORIDA	36	MULTIBAND	INFRARED	70 MM 175
VR-20-4J-086-00064	22-25 JAN 67	086	ARGUS ISLE, BERMUDA	38	MULTIBAND	PLUS-X	70 MM 1010

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-20-JJ-006-00065	22-25 JAN 67	006	ARGUE ISLE, BERMUDA	38	MULTIBAND	INFRARED 70 MM 505
VR-20-CH-120-00066	12 JUN 67	120	MISSISSIPPI DELTA, LOUISIANA	50	MULTIBAND	PLUS-X 70 MM 500
VR-20-FH-120-00067	12 JUN 67	120	MISSISSIPPI DELTA, LOUISIANA	50	MULTIBAND	INFRARED 70 MM 250
VR-20-CH-099-00068	16 JUN 67	099	FLORIDA STRAITS	50	MULTIBAND	PLUS-X 70 MM 250
VR-20-CH-100-00069	16 JUN 67	100	CUTLER AREA SUBMARINE SPRING, FLA.	50	MULTIBAND	PLUS-X 70 MM 250
VR-20-CH-099-00070	16 JUN 67	099	FLORIDA STRAITS	50	MULTIBAND	INFRARED 70 MM 125
VR-20-CH-100-00071	16 JUN 67	100	CUTLER AREA SUBMARINE SPRING, FLA.	50	MULTIBAND	INFRARED 70 MM 125
VR-20-FH-032-00072	23 JUN 67	032	WESLACO, TEXAS	51	MULTIBAND	PLUS-X 70 MM 1000
VR-20-FH-032-00073	23 JUN 67	032	WESLACO, TEXAS	51	MULTIBAND	INFRARED 70 MM 320
VR-20-FH-032-00074	7 JUL 67	032	WESLACO, TEXAS	951	MULTIBAND	PLUS-X 70 MM 1000
VR-20-FH-032-00075	7 JUL 67	032	WESLACO, TEXAS	951	MULTIBAND	3+W INFRARED 70 MM 500
VR-20-GJ-044-00076	29 JUN 67	044	PURDUE, INDIANA	52	MULTIBAND	PLUS-X 70 MM 350
VR-20-GJ-044-00077	29 JUN 67	044	PURDUE, INDIANA	52	MULTIBAND	3+W INFRARED 70 MM 175
VR-20-CJ-040-00078	21 AUG 67	040	SAN PABLO RESERVOIR, CALIFORNIA	55	MULTIBAND	PLUS-X 70 MM 500
VR-20-CK-156-00079	21 AUG 67	156	WIND RIVER, WASHINGTON	55	MULTIBAND	PLUS-X 70 MM 500
VR-20-CJ-040-00080	21 AUG 67	040	SAN PABLO RESERVOIR, CALIFORNIA	55	MULTIBAND	3+W INFRARED 70 MM 250
VR-20-CK-156-00081	21 AUG 67	156	WIND RIVER, WASHINGTON	55	MULTIBAND	3+W INFRARED 70 MM 250
VR-20-CH-146-00082	21 SEP 67	146	ALAFIA AND PEACE RIVERS, FLORIDA	57	MULTIBAND	PLUS-X 540I 70 MM 1000
VR-20-CJ-020-00083	17-10 OCT 67	020	BUCKS LAKE, CALIFORNIA	59	MULTIBAND	PLUS-X 70 MM 1500
VR-20-CJ-135-00084	17-10 OCT 67	135	HARVEY VALLEY, CALIFORNIA	59	MULTIBAND	PLUS-X 70 MM 1500
VR-20-CK-156-00085	17-10 OCT 67	156	WIND RIVER, WASHINGTON	59	MULTIBAND	PLUS-X 70 MM 1500
VR-20-CJ-159-00086	17-10 OCT 67	159	MORSEFLY MOUNTAIN, OREGON	59	MULTIBAND	PLUS-X 70 MM 1500



IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-21-4H-092-00004	JUN 69	092	PUERTO RICO	98	RS-14, 3.0-5.5 MICROMETER
ROLL	FLIGHT	LINE	START	STOP	REMARKS
1	3		074040		SCALE
1	3		074200		1.150,000
1	3	8	082745		1.160,500
1	3	9	084910		1.150,000
1	3	10	085320		1.150,000
1	3	11	090035		1.150,000
1	3	12	091015		1.150,000
VR-21-4H-092-00005	JUN 69	092	PUERTO RICO	98	RS-14, 3.0-5.5 MICROMETERS
ROLL	FLIGHT	LINE	START	STOP	REMARKS
1	4	18	122210		1.37,500
1	4	17	123040		1.37,500
1	4	20	125315		1.37,500
1	4	5	131755		1.37,500
1	4	6	133410		1.37,500
VR-21-4H-092-00006	JUN 69	092	PUERTO RICO	98	RS-14, 3.0-5.5 MICROMETERS
ROLL	FLIGHT	LINE	START	STOP	REMARKS
1	5		113845		1.150,000
1	5		114130		1.150,000
1	5	20	123005		1.37,000
1	5	4	125830		1.150,000
1	5	5	131715		1.150,000
1	5	6	133345		1.150,000
1	5	5	140400		1.150,000
1	5	21	143235		1.37,000
VR-21-JG-192-00007	JUN 69	192	BARBADOS	98	RS-14, 3.0-5.5 MICROMETERS
ROLL	FLIGHT	LINE	START	STOP	REMARKS
1	6	5	161930		20 FT. LEADER PULLED PREV. FLIGHT
1	6	4	163655		40 INCHES
VR-21-JG-192-00008	JUN 69	192	BARBADOS	98	RS-14, 5.5 MICROMETERS
ROLL	FLIGHT	LINE	START	STOP	REMARKS
1	7		134545		PRT-5 41.6 DEGREE
1	7		134670		PRT-5 41.2 DEGREE
1	7		134730		PRT-40.8 DEGREE. HOUSING TEMP IS ON VOICE
1	7	1	142815		28 - 40 -5
1	7	2	145945		TAPE NOT ON ABORTED.
1	7	2	150700		1.22,500
1	7	6	153415		1.112,500
1	7	6	154310		1.112,500
1	7	3	155730		1.150,000
1	7	7	160920		1.150,000
1	7	5	161820		1.150,000
1	7	4	164045		1.150,000

TAPE TO FILM 190 INCHES.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- STON	INSTRUMENT CONFIGURATION
VR-21-EK-039-00009 27	AUG 69 FLIGHT 5	039	EASTERN BEAR TOOTH MOUNTAINS	102	RS-14, 2498, 8-14 MICROMETERS CHANNEL 2 CHANNEL 2 CHANNEL 2 FILM D. MAP NO. NL 12-12
VR-21-EK-039-00010 28	AUG 69 FLIGHT 6	039	EASTERN BEAR TOOTH MOUNTAINS	102	RS-14, 2498, 8-14 MICROMETERS CHANNEL 2 MAP NO. NL 12-12
VR-21-EK-197-00011 26	AUG 69 FLIGHT 1	197	CHIPPEWA NAT. L. AL. FOREST	102	RS-14, 2498, 8-14 MICROMETERS PRT-5-34.23 AND PRT-5-34.00 PRT-5-34.00 AND PRT-5-33.25 CHANNEL 2 CHANNEL 2 MAP NO. NL 15-2
VR-21-EK-197-00012 26	AUG 69 FLIGHT 2	197	CHIPPEWA NAT. L. FOREST	102	RS-14, 2498, 8-14 MICROMETERS HAZY, GROUND, FOG. MAP NO. NL 15-2
VR-21-EK-197-00013 26	AUG 69 FLIGHT 3	197	CHIPPEWA NAT. L. FOREST	102	RS-14, 2498, 8-14 MICROMETERS CHANNEL 2 CHANNEL 2 HAZE VERY BAD. CHANNEL 2. HAZE VERY BAD. CHANNEL 29. SPEC. RUN FOR S.I.A.R. MAP NO. NL 15-2
VR-21-EK-197-00014 26	AUG 69 FLIGHT 4	197	CHIPPEWA NAT. L. FOREST	102	RS-14, 2498, 8-14 MICROMETERS CHANNEL 2 MAP NO. NL 15-2
VR-21-EJ-186-00015 27	AUG 69 FLIGHT 5	186	CLARKS FORK	102	RS-14, 2498, 8-14 MICROMETERS CHANNEL 2 CHANNEL 2 CHANNEL 2 CHECK FOR DARK SLIDE REMOVAL. CHANNEL 2. MAP NO. NL 12-12



IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-21-EJ-186-00016 28	AUG 69 FLIGHT 6	186 CLARKS FORK LINE START STOP 2 112425 112810 3 113225 113600 1 114320 114705 4 115055 115300 5 15850 120140	ALTITUDE 5,000 MSL 5,000 MSL 5,000 MSL 5,000 MSL 5,000 MSL	102 SCALE 1.37,500 1.37,500 1.37,500 1.37,500 1.37,500	RS-14, 2498, 8-14 MICROMETERS REMARKS  MAP NO. NL 12-12
VR-21-EJ-011-00017 27	AUG 69 FLIGHT 5	011 YELLOWSTONE NATIONAL PARK LINE START STOP 13 182650 182850 12 182935 183105 18 183730 183805 10 185030 185150 11 185625 185805	ALTITUDE 5,000 MSL 5,000 MSL 5,000 MSL 5,000 MSL 5,000 MSL	102 SCALE 1.37,500 1.37,500 1.37,500 1.37,500 1.37,500	RS-14, 2498, 8-14 MICROMETERS REMARKS NOT REQUIRED RAN CHANNEL 2. NOT REQUIRED RAN CHANNEL 2. NOT REQUIRED RAN CHANNEL 2. NOT REQUIRED RAN CHANNEL 2. NOT REQUIRED RAN CHANNEL 2. MAP NO. NL 12-12
VR-21-EJ-011-00018 28	AUG 69 FLIGHT 6	011 YELLOWSTONE NATIONAL PARK LINE START STOP 10 121725 121930 11 122255 122530 9 123315 123530 9 124140 124420 12 124725 124900 13 125005 125155	ALTITUDE 5,000 MSL 5,000 MSL 5,000 MSL 2,500 MSL 5,000 MSL 5,000 MSL	102 SCALE 1.37,500 1.37,500 1.37,500 1.18,750 1.37,500 1.37,500	RS-14, 2498, 8-14 MICROMETERS REMARKS  MAP NO. NL 12-12
VR-21-EJ-076-00019 04	SEP 69 FLIGHT 9	076 GARDEN CITY LINE START STOP 10 172440 173120 15 173625 174240 13 175000 175645 14 180020 180700 11 181030 181703 13 182125 182800 12 183200 183930 17 194915 195503 18 195900 200619 19 201210 201820 10 202600 203410 9 204820 205700 18 210430 211220 19 212810 213720	ALTITUDE 20,000 MSL 20,000 MSL 20,000 MSL 20,000 MSL 20,000 MSL 20,000 MSL 20,000 MSL 3,000 MSL 3,000 MSL 3,000 MSL 3,000 MSL 3,000 MSL 3,000 MSL 3,000 MSL	102 SCALE 1.150,000 1.150,000 1.150,000 1.150,000 1.150,000 1.150,000 1.150,000 1.22,500 1.22,500 1.22,500 1.22,500 1.22,500 1.22,500 1.22,500	RS-14, 2498, 8-14 MICROMETERS REMARKS WAS NOT SCHEDULED, CHANNEL 2. NOT SCHEDULED, CHANNEL 2. CHANNEL 2 NOT SCHEDULED, CHANNEL 2 CHANNEL 2 CHANNEL 2 NOT REQUIRED, CHANNEL 2 OPTIC FOGGED  CHANNEL 2. CHANNEL 2. MAP NO5, NJ 14-6 & NJ 14-7
VR-22-EJ-000-00001	21 APR 65	000	SAN CLEMENTE	7	RC-8 PLUS-X
					9-1/2 IN. 160

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-3K-040-00002	23 SEP 65	040	CASCADE MOUNTAINS, WASHINGTON	13 RC-8	EKTACHROME 9-1/2 IN. 40
VR-22-3K-040-00003	23 SEP 65	040	CASCADE MOUNTAINS, WASHINGTON	13 RC-8	EKTACHROME, IR 9-1/2 IN. 40
VR-22-3J-007-00004	24 SEP 65	007	COAST RANGE, OREGON/WASHINGTON	13 RC-8	P_US-X 9-1/2 IN. 100
VR-22-3J-007-00005	24 SEP 65	007	COAST RANGE, OREGON/WASHINGTON	13 RC-8	P_US-X 9-1/2 IN. 40
VR-22-EJ-003-00006	29 SEP 65	003	MONO CRATERS, CALIFORNIA	13 RC-8	EKTACHROME 9-1/2 IN. 30
VR-22-EJ-003-00007	30 SEP 65	003	MONO CRATERS, CALIFORNIA	13 RC-8	P_US-X 9-1/2 IN 100
VR-22-EJ-003-00008	30 SEP 65	003	MONO CRATERS, CALIFORNIA	13 RC-8	EKTACHROME IR 9-1/2 IN. 60
VR-22-EJ-003-00009	30 SEP 65	003	MONO CRATERS, CALIFORNIA	13 RC-8	EKTACHROME IR 9-1/2 IN. 75
VR-22-EJ-003-00010	1 OCT 65	003	MONO CRATERS, CALIFORNIA	13 RC-8	P_US-X 9-1/2 IN. 150
VR-22-GJ-046-00011	15 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-GJ-046-00012	15 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14 RC-8	DJP, POS. 9-1/2 IN. 60
VR-22-GJ-046-00013	17 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14 RC-8	EKTACHROME, IR 9-1/2 IN. 60
VR-22-GJ-046-00014	17 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-GJ-046-00015	17 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-GJ-046-00016	17 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-GJ-046-00017	17 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14 RC-8	EKTACHROME 9-1/2 IN. 60
VR-22-GJ-046-00018	19 NOV 65	043	CHICAGO, ILLINOIS	14 RC-8	TRI-X 9-1/2 IN. 75
VR-22-GJ-043-00019	19 NOV 65	043	CHICAGO, ILLINOIS	14 RC-8	EKTACHROME 9-1/2 IN. 150
VR-22-GJ-043-00020	19 NOV 65	043	CHICAGO, ILLINOIS	14 RC-8	EKTACHROME 9-1/2 IN. 150
VR-22-GJ-043-00021	11 NOV 65	043	CHICAGO, ILLINOIS	14 RC-8	EKTACHROME, IR 9-1/2 IN. 150
VR-22-EJ-031-00022	20 DEC 65	031	WILLCOX DRY LAKE, ARIZONA	15 RC-8	TRI-X 9-1/2 IN. 60
VR-22-H-032-00023	22 DEC 65	032	MESLACO, TEXAS	16 RC-8	EKTACHROME, IR 9-1/2 IN. 75

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-H-032-00024	22 DEC 65	032	WESLACO, TEXAS	16 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-H-032-00025	5 JAN 66	032	WESLACO, TEXAS	17 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-H-032-00026	5 JAN 66	032	WESLACO, TEXAS	17 RC-8	EKTACHROME, IR 9-1/2 IN. 35
VR-22-EJ-028-00027	8 JAN 66	028	WINSLOW (METEOR CRATER), ARIZONA	18 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-031-00028	8 JAN 66	031	MESQUITE SEDIMENTARY, ARIZONA	18 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-EJ-031-00029	9 JAN 66	031	MESQUITE SEDIMENTARY, ARIZONA	18 RC-8	EKTACHROME 9-1/2 IN. 38
VR-22-EJ-015-00030	9 JAN 66	015	TWIN BUTTES (PIMA DISTRICT), ARIZ.	18 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-015-00031	10 JAN 66	015	TWIN BUTTES (PIMA DISTRICT), ARIZ.	18 RC-8	EKTACHROME 9-1/2 IN. 7
VR-22-EJ-027-00032	11 JAN 66	027	SALTON SEA, CALIFORNIA	18 RC-8	TRI-X 9-1/2 IN. 125
VR-22-EJ-027-00033	12 JAN 66	027	SALTON SEA, CALIFORNIA	18 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-027-00034	12 JAN 66	027	SALTON SEA, CALIFORNIA	18 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-029-00035	15 FEB 66	029	PHOENIX, ARIZONA	19 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-EJ-029-00036	15 FEB 66	029	PHOENIX, ARIZONA	19 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-EJ-029-00037	15 FEB 66	029	PHOENIX, ARIZONA	19 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-029-00038	15 FEB 66	029	PHOENIX, ARIZONA	19 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-086-00039	9 MAR 66	086	ARGUS ISLE, BERMUDA	20 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-086-00040	10 MAR 66	086	ARGUS ISLE, BERMUDA	20 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-086-00041	10 MAR 66	086	ARGUS ISLE, BERMUDA	20 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-086-00042	10 MAR 66	086	ARGUS ISLE, BERMUDA	20 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-086-00043	10 MAR 66	086	ARGUS ISLE, BERMUDA	20 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-012-00044	3 APR 66	012	CRATER LAKE, OREGON	21 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-EJ-040-00045	4 APR 66	040	CASCADE MOUNTAINS, WASHINGTON	21 RC-8	EKTACHROME 9-1/2 IN. 75

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-2K-040-00046	4 APR 66	040	CASCADE MOUNTAINS, WASHINGTON	21 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-2J-000-00047	4 APR 66	007	COAST RANGE, OREGON/WASHINGTON	21 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-2J-012-00048	4 APR 66	012	CRATER LAKE, OREGON	21 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-2J-002-00049	5 APR 66	002	PISGAH CRATER, CALIFORNIA	21 RC-8	EKTACHROME, IR 9-1/2 IN.
VR-22-2J-003-00050	5 APR 66	003	MONO CRATERS, CALIFORNIA	21 RC-8	PLUS-X 9-1/2 IN.
VR-22-2J-002-00051	5 APR 66	002	PISGAH CRATER, CALIFORNIA	21 RC-8	PLUS-X 9-1/2 IN. 180
VR-22-2K-087-00052	16-20 APR 66	087	GOOSE BAY, LABRADOR	22 RC-6	PLUS-X 9-1/2 IN. 1160
VR-22-6J-040-00053	7 MAY 66	046	ASHEVILLE, NORTH CAROLINA	23 RC-8	TRI-X 9-1/2 IN. 50
VR-22-6J-046-00054	7 MAY 66	046	ASHEVILLE, NORTH CAROLINA	23 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-6J-046-00055	7 MAY 66	046	ASHEVILLE, NORTH CAROLINA	23 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-6J-046-00056	7 MAY 66	046	ASHEVILLE, NORTH CAROLINA	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-6J-046-00057	7 MAY 66	046	ASHEVILLE, NORTH CAROLINA	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-6H-147-00058	8 MAY 66	147	LAKES/TAMPA, FLORIDA	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-6H-000-00059	9 MAY 66	000	MIAMI REEF	23 RC-8	EKTACHROME 9-1/2 IN. 30
VR-22-6H-107-00060	9-10 MAY 66	107	CAPE SABLE SUBMARINE SPRING, FLA.	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-6H-108-00061	9-10 MAY 66	108	CUTLER AREA SUBMARINE SPRING, FLA.	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-6H-095-00062	9-10 MAY 66	095	EVERGLADES, FLORIDA	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-6H-098-00063	9-10 MAY 66	098	HOMESTEAD, FLORIDA	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-6H-106-00064	10 MAY 66	106	CLEARWATER/NAPLES SUBMARINE SPRING, FLORIDA.	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-2H-095-00065	10 MAY 66	095	EVERGLADES, FLORIDA	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-6H-106-00066	10 MAY 66	106	CLEARWATER/NAPLES SUBMARINE SPRING, FLORIDA	23 RC-8	EKTACHROME 9-1/2 IN. 75

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS-610N	INSTRUMENT CONFIGURATION
VR-22-CH-107-00067	10 MAY 66	107	CAPE SABLE SUBMARINE SPRING, FLA.	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-CH-095-00068	11 MAY 66	095	EVERGLADES, FLORIDA	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-CH-105-00069	11 MAY 66	105	CRESCENT SPRING SUBMARINE SPRING, FLORIDA.	23 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-J-043-00070	30 JUN 66	043	CHICAGO, ILLINOIS	25 RC-8	EKTACHROME 9-1/2 IN. 500
VR-22-GJ-088-00071	30 JUN 66	088	MISSISSIPPI VALLEY, MISSOURI/TENN.	25 RC-8	EKTACHROME 9-1/2 IN. 500
VR-22-GJ-043-00072	30 JUN 66	043	CHICAGO, ILLINOIS	25 RC-8	EKTACHROME, IR 9-1/2 IN. 500
VR-22-GJ-088-00073	30 JUN 66	088	MISSISSIPPI VALLEY, MISSOURI/TENN.	25 RC-8	EKTACHROME, IR 9-1/2 IN. 500
VR-22-GJ-043-00074	1 JUL 66	043	CHICAGO, ILLINOIS	25 RC-8	PLUS-X 9-1/2 IN. 450
VR-22-GJ-088-00075	1 JUL 66	088	MISSISSIPPI VALLEY, MISSOURI/TENN.	25 RC-8	PLUS-X 9-1/2 IN. 450
VR-22-CH-128-00076	6 JUL 66	128	MISSISSIPPI DELTA, LOUISIANA	26 RC-8	PLUS-X 9-1/2 IN. 850
VR-22-CH-032-00077	8 JUL 66	032	WESLACO, TEXAS	27 RC-8	EKTACHROME, IR 9-1/2 IN. 225
VR-22-EJ-114-00078	26 JUL 66	114	WHITE SANDS, NEW MEXICO	28 RC-8	EKTACHROME 9-1/2 IN. 45
VR-22-GJ-024-00079	28 JUL 66	024	SAN ANDREAS FAULT, CALIFORNIA	28 RC-8	PLUS-X 9-1/2 IN. 75
VR-22-EJ-130-00080	8 AUG 66	130	SOUTHERN CALIFORNIA	29 RC-8	EKTACHROME, IR 9-1/2 IN. 135
VR-22-CK-040-00081	11 AUG 66	040	CASCADE MOUNTAINS, WASHINGTON	29 RC-8	PLUS-X 9-1/2 IN. 75
VR-22-EJ-019-00082	30 AUG 66	019	SONORA PASS, CALIFORNIA	30 RC-8	PLUS-X 9-1/2 IN. 230
VR-22-GJ-020-00083	1 SEP 66	020	BUCKS LAKE, CALIFORNIA	30 RC-8	EKTACHROME 9-1/2 IN. 75
VR-22-EJ-003-00084	1 SEP 66	003	MONO CRATERS, CALIFORNIA	30 RC-8	EKTACHROME, IR 9-1/2 IN. 375
VR-22-GJ-020-00085	1 SEP 66	020	BUCKS LAKE, CALIFORNIA	30 RC-8	EKTACHROME, IR 9-1/2 IN. 375
VR-22-EJ-052-00087	3 SEP 66	052	NEVADA AEC	30 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-GJ-043-00088	15 SEP 66	043	CHICAGO, ILLINOIS	31 RC-8	EKTACHROME, IR 9-1/2 IN. 150
VR-22-EJ-011-00089	19-22 SEP 66	011	YELLOWSTONE NATIONAL PARK, WYOMING/ MONTANA/IDAHO	32 RC-8	EKTACHROME 9-1/2 IN. 150

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- STOV	INSTRUMENT CONFIGURATION
VR-22-EJ-011-00090	19-22 SEP 66	011	YELLOWSTONE NATIONAL PARK, WYOMING/ MONTANA/IDAHO	32 RC-8	EKTACHROME, IR 9-1/2 IN. 675
VR-22-EJ-114-00091	3 OCT 66	114	WHITE SANDS, NEW MEXICO	33 RC-8	PLUS-X 9-1/2 IN. 100
VR-22-EJ-046-00092	11-14 OCT 66	046	ASHEVILLE, NORTH CAROLINA	34 RC-8	EKTACHROME 9-1/2 IN. 525
VR-22-GH-099-00093	11-14 OCT 66	099	FLORIDA STRAITS	34 RC-8	EKTACHROME 9-1/2 IN. 525
VR-22-EJ-138-00094	11-14 OCT 66	138	GULFSTREAM NORTH	34 RC-8	EKTACHROME 9-1/2 IN. 525
VR-22-GJ-046-00095	11 OCT 66	046	ASHEVILLE, NORTH CAROLINA	34 RC-8	EKTACHROME, IR 9-1/2 IN. 150
VR-22-GH-128-00096	17 OCT 66	128	MISSISSIPPI DELTA, LOUISIANA	34 RC-8	PLUS-X 9-1/2 IN. 120
VR-22-FH-032-00097	5 DEC 66	032	WESLACO, TEXAS	35 RC-8	EKTACHROME, IR 9-1/2 IN. 225
VR-22-GH-095-00098	7-8 DEC 66	095	EVERGLADES, FLORIDA	36 RC-8	EKTACHROME, IR 9-1/2 IN. 190
VR-22-GH-098-00099	6-7 DEC 66	098	HONESTEAD, FLORIDA	36 RC-8	EKTACHROME, IR 9-1/2 IN. 260
VR-22-GJ-102-00100	6-7 DEC 66	102	STATENVILLE/LAKE CITY, FLORIDA, PHOSPHATE.	36 RC-8	EKTACHROME, IR 9-1/2 IN. 260
VR-22-GH-103-00101	6-7 DEC 66	103	CRYSTAL RIVER, FLORIDA	36 RC-8	EKTACHROME, IR 9-1/2 IN. 260
VR-22-GH-104-00102	6-7 DEC 66	104	WAUCHALA/TAMPA, FLORIDA	36 RC-8	EKTACHROME, IR 9-1/2 IN. 260
VR-22-GH-128-00103	14 DEC 66	128	MISSISSIPPI DELTA, LOUISIANA	37 RC-8	EKTACHROME, IR 9-1/2 IN. 100
VR-22-EJ-086-00104	22-25 JAN 67	086	ARGUS ISLE, BERMUDA	38 RC-8	EKTACHROME 9-1/2 IN. 245
VR-22-EJ-114-00105	4 FEB 67	114	WHITE SANDS, NEW MEXICO	39 RC-8	EKTACHROME 9-1/2 IN. 210
VR-22-GH-099-00106	21 FEB 67	099	FLORIDA STRAITS	40 RC-8	EKTACHROME, IR 9-1/2 IN. 125
VR-22-GH-132-00107	24 FEB 67	132	NEW ORLEANS, LOUISIANA	40 RC-8	EKTACHROME 9-1/2 IN. 25
VR-22-GH-128-00108	24 FEB 67	128	MISSISSIPPI DELTA, LOUISIANA	41 RC-8	EKTACHROME, IR 9-1/2 IN. 35
VR-22-GH-128-00109	24 FEB 67	128	MISSISSIPPI DELTA, LOUISIANA	41 RC-8	EKTACHROME 9-1/2 IN. 696
VR-22-EJ-007-00110	7 MAR 67	007	COAST RANGE, OREGON/WASHINGTON	42 RC-8	PLUS-X 9-1/2 IN. 40

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-130-00111	8 MAR 67	130	SOUTHERN CALIFORNIA	42 RC-8	EKTACHROME, IR 9-1/2 IN. 60
VR-22-EJ-130-00112	8 MAR 67	130	SOUTHERN CALIFORNIA	42 RC-8	AERO EKTACHROME 9-1/2 IN. 50
VR-22-EJ-101-00113	16 MAR 67	101	SAN FRANCISCO VOLCANIC FIELDS, ARIZ.	43 RC-8	AERO EKTACHROME 9-1/2 IN. 75
VR-22-EJ-114-00114	15 MAR 67	114	WHITE SANDS, NEW MEXICO	43 RC-8	PLUS-X 9-1/2 IN. 75
VR-22-EJ-114-00115	15 MAR 67	114	WHITE SANDS, NEW MEXICO	43 RC-8	AERO EKTACHROME 9-1/2 IN. 75
VR-22-EJ-014-00116	15 MAR 67	014	LITTLE DRAGON MOUNTAINS, ARIZONA	43 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-029-00117	15 MAR 67	029	PHOENIX, ARIZONA	43 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-051-00118	21 MAR 67	051	MESQUITE SEDIMENTARY, ARIZONA	44 RC-8	EKTACHROME, IR 9-1/2 IN. 125
VR-22-EJ-154-00119	22 MAR 67	154	AMBOY CRATER, CALIFORNIA	44 RC-8	EKTACHROME, IR 9-1/2 IN. 15
VR-22-EJ-002-00120	22 MAR 67	002	PIGSM CRATER, CALIFORNIA	44 RC-8	EKTACHROME, IR 9-1/2 IN. 225
VR-22-EJ-052-00121	23 MAR 67	052	NEVADA AEC	44 RC-8	PLUS-X 9-1/2 IN. 250
VR-22-EJ-052-00122	23 MAR 67	052	NEVADA AEC	44 RC-8	EKTACHROME, IR 9-1/2 IN. 150
VR-22-3L-093-00123	11-16 MAY 67	093	PT. BARROW, ALASKA	47 RC-8	EKTACHROME, IR 9-1/2 IN. 1125
VR-22-CL-143-00124	11-16 MAY 67	143	COOK INLET, ALASKA	47 RC-8	EKTACHROME, IR 9-1/2 IN. 1125
VR-22-CL-143-00125	11-13 MAY 67	143	COOK INLET, ALASKA	47 RC-8	AERO EKTACHROME 9-1/2 IN. 200
VR-22-3L-093-00126	11-16 MAY 67	093	PT. BARROW, ALASKA	47 RC-8	PLUS-X 9-1/2 IN. 1260
VR-22-CH-099-00127	9 JUN 67	099	FLORIDA STRAITS	49 RC-8	EKTACHROME, IR 9-1/2 IN. 110
VR-22-CH-155-00128	9 JUN 67	155	GULF COAST FISHERIES	49 RC-8	EKTACHROME, IR 9-1/2 IN. 110
VR-22-CH-099-00129	9 JUN 67	099	FLORIDA STRAITS	49 RC-8	AERO EKTACHROME 9-1/2 IN. 200
VR-22-CH-155-00130	9 JUN 67	155	GULF COAST FISHERIES	49 RC-8	AERO EKTACHROME 9-1/2 IN. 100
VR-22-CH-128-00131	12 JUN 67	128	MISSISSIPPI DELTA, LOUISIANA	50 RC-8	EKTACHROME 9-1/2 IN. 370
VR-22-FH-032-00132	23 JUN 67	032	WESLACO, TEXAS	51 RC-8	EKTACHROME, IR 9-1/2 IN. 150

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-FH-032-00133	7 JUL 67	032	WESLACO, TEXAS	951 RC-8	EKTACHROME, IR 9-1/2 IN. 135
VR-22-GJ-044-00134	29 JUN 67	044	PURDUE, INDIANA	52 RC-8	EKTACHROME 9-1/2 IN. 225
VR-22-CJ-046-00135	17 JUL 67	046	ASHEVILLE, NORTH CAROLINA	53 RC-8	AERO EKTACHROME 9-1/2 IN. 30
VR-22-GJ-124-00136	17 JUL 67	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	53 RC-8	AERO EKTACHROME 9-1/2 IN. 75
VR-22-GJ-153-00137	17 JUL 67	153	ANNAPOLIS, MARYLAND	53 RC-8	AERO EKTACHROME 9-1/2 IN. 75
VR-22-GJ-124-00138	17 JUL 67	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	RC-8	AERO EKTACHROME 9-1/2 IN. 75
VR-22-IJ-152-00139	17 JUL 67	152	BARNEGAT BAY, NEW JERSEY	53 RC-8	AERO EKTACHROME 9-1/2 IN. 75
VR-22-GJ-046-00140	17 JUL 67	046	ASHEVILLE, NORTH CAROLINA	53 RC-8	AERO EKTACHROME 9-1/2 IN. 75
VR-22-GJ-124-00141	17 JUL 67	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	53 RC-8	AERO EKTACHROME 9-1/2 IN. 75
VR-22-GJ-046-00142	17 JUL 67	046	ASHEVILLE, NORTH CAROLINA	53 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-GJ-150-00143	17 JUL 67	150	PAMLICO SOUND, NORTH CAROLINA	53 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-GJ-124-00144	17 JUL 67	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	53 RC-8	EKTACHROME, IR 9-1/2 IN. 150
VR-22-IJ-152-00145	17 JUL 67	152	BARNEGAT BAY, NEW JERSEY	53 RC-8	EKTACHROME, IR 9-1/2 IN. 150
VR-22-GJ-124-00146	17 JUL 67	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	53 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-GJ-153-00147	17 JUL 67	153	ANNAPOLIS, MARYLAND	53 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-GJ-046-00148	17 JUL 67	046	ASHEVILLE, NORTH CAROLINA	53 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-GJ-044-00149	7 AUG 67	044	PURDUE, INDIANA	54 RC-8	AERO EKTACHROME 9-1/2 IN. 225
VR-22-FJ-114-00150	7 AUG 67	114	WISCONSIN SAND PLAINS	54 RC-8	AERO EKTACHROME 9-1/2 IN. 225
VR-22-FJ-085-00151	7 AUG 67	085	LAWRENCE, KANSAS	54 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-GJ-044-00152	7 AUG 67	044	PURDUE, INDIANA	54 RC-8	EKTACHROME, IR 9-1/2 IN. 225



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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-076-00153	7 AUG 67	076	GARDEN CITY, KANSAS	54 RC-8	EKTACHROME, IR 9-1/2 IN. 75
VR-22-EJ-076-00154	21 AUG 67	156	WIND RIVER, WASHINGTON	55 RC-8	AERO EKTACHROME 9-1/2 IN. 50 FILM OF NO VALUE WONG FILTER
VR-22-EJ-048-00155	21 AUG 67	048	SAN PABLO RESERVOIR, CALIFORNIA	55 RC-8	EKTACHROME, IR 9-1/2 IN. 200
VR-22-EJ-056-00156	21 AUG 67	056	MT. LASSEN, CALIFORNIA	55 RC-8	EKTACHROME, IR 9-1/2 IN. 200
VR-22-EJ-157-00157	6-9 SEP 67	157	BORREGO SPRINGS, CALIFORN.	56 RC-8	PLUS-X 540I 9-1/2 IN. 1080
VR-22-EJ-003-00158	6-9 SEP 67	003	MONO CRATERS, CALIFORNIA	56 RC-8	PLUS-X 540I 9-1/2 IN. 1080
VR-22-EJ-019-00159	6-9 SEP 67	019	SONORA PASS, CALIFORNIA	56 RC-8	PLUS-X 540I 9-1/2 IN. 1080
VR-22-EJ-019-00160	7-9 SEP 67	019	SONORA PASS, CALIFORNIA	56 RC-8	EKTACHROME, IR 9-1/2 IN. 375
VR-22-EJ-130-00161	7-9 SEP 67	130	SOUTHERN CALIFORNIA	56 RC-8	EKTACHROME, IR 9-1/2 IN. 375
VR-22-EJ-157-00162	7-9 SEP 67	157	BORREGO SPRINGS, CALIFORNIA	56 RC-8	EKTACHROME, IR 9-1/2 IN. 375
VR-22-EJ-003-00163	7-9 SEP 67	003	MONO CRATERS, CALIFORNIA	56 RC-8	EKTACHROME, IR 9-1/2 IN. 375
VR-22-EJ-158-00164	10 SEP 67	158	CORPUS CHRISTI, TEXAS/GULF OF MEXICO	57 RC-8	COLOR EKTACHROME 9-1/2 IN. 100
VR-22-EJ-146-00165	21 SEP 67	146	ALAFIA AND PEACE RIVERS, FLORIDA	57 RC-8	EKTACHROME, IR 9-1/2 IN. 200
VR-22-EJ-128-00166	30 AUG 67	128	MISSISSIPPI DELTA, LOUISIANA	58 RC-8	COLOR EKTACHROME 9-1/2 IN. 450
VR-22-EJ-997-00167	30 AUG 67	997	CAPE KENNEDY, FLORIDA	58 RC-8	COLOR EKTACHROME 9-1/2 IN. 100
VR-22-EJ-997-00168	30 AUG 67	997	CAPE KENNEDY, FLORIDA	58 RC-8	EKTACHROME, IR 9-1/2 IN. 100
VR-22-EJ-128-00169	30 AUG 67	128	MISSISSIPPI DELTA, LOUISIANA	58 RC-8	EKTACHROME, IR 9-1/2 IN. 450
VR-22-EJ-159-00170	10 OCT 67	159	HORSFELY MOUNTAIN, OREGON	59 RC-8	EKTACHROME 8442 9-1/2 IN. 40
VR-22-EJ-020-00171	17-10 OCT 67	020	BUCKS LAKE, CALIFORNIA	59 RC-8	EKTACHROME 9-1/2 IN. 255
VR-22-EJ-051-00172	17-10 OCT 67	051	MESQUITE SEDIMENTARY, ARIZONA	59 RC-8	EKTACHROME 9-1/2 IN. 255
VR-22-EJ-076-00174	13-16 NOV 67	076	GARDEN CITY, KANSAS	61 RC-8	EKTA. IR-8443 9-1/2 IN. 275

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-GJ-079-00175	13-16 NOV 67	079	MATEMAN, KENTUCKY	61 RC-8	EKTA, IR-8443 9-1/2 IN. 275
VR-22-J-129-00176	13-16 NOV 67	129	ARKANSAS BASIN	61 RC-8	EKTA, IR-8443 9-1/2 IN. 275
VR-22-J-085-00177	15 NOV 67	085	LAWRENCE, KANSAS	61 RC-8	AERO EKTA, 8442 9-1/2 IN. 100
VR-22-H-032-00178	4 DEC 67	032	WESLACO, TEXAS	62 RC-8	EKTACHROME IR 9-1/2 IN. 185
VR-22-GH-132-00179	6 DEC 67	132	NEW ORLEANS, LOUISIANA	62 RC-8	EKTACHROME IR 9-1/2 IN. 150
VR-22-GJ-133-00180	6 DEC 67	133	MICHCUD, LOUISIANA	62 RC-8	EKTACHROME IR 9-1/2 IN. 150
VR-22-GJ-134-00181	6 DEC 67	134	SLIDELL, LOUISIANA	62 RC-8	EKTACHROME IR 9-1/2 IN. 150
VR-22-GJ-137-00182	6 DEC 67	137	MISSISSIPPI TEST FACILITY	62 RC-8	EKTACHROME IR 9-1/2 IN. 150
VR-22-GJ-165-00183	5 JAN 68	165	DESERET/ST. MARKS, FLORIDA	964 RC-8	EKTA, IR 8443 9-1/2 IN. 150
VR-22-H-032-00184	15 JAN 68	032	WESLACO, TEXAS	64 RC-8	EKTA, IR 8443 9-1/2 IN. 225
VR-22-H-032-00185	15 JAN 68	032	WESLACO, TEXAS	64 RC-8	EKTACHROME 8442 9-1/2 IN. 225
VR-22-GJ-124-00186	17-19 JAN 68	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	65 RC-8	EKTACHROME 8443 9-1/2 IN. 280
VR-22-GJ-124-00187	19 JAN 68	124	DELAWARE PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	65 RC-8	EKTACHROME 8442 9-1/2 IN. 75
VR-22-GJ-150-00188	19 JAN 68	150	PAMLICO SOUND, NORTH CAROLINA	65 RC-8	EKTACHROME 8442 9-1/2 IN. 75
VR-22-GJ-150-00189	17-19 JAN 68	150	PAMLICO SOUND, NORTH CAROLINA	65 RC-8	EKTACHROME 8442 9-1/2 IN. 150
VR-22-LJ-152-00190	18 JAN 68	152	BARNEGAT BAY, NEW JERSEY	65 RC-8	EKTACHROME 8442 9-1/2 IN. 60
VR-22-LJ-161-00191	18 JAN 68	161	RARITAN RIVER, NEW JERSEY	65 RC-8	EKTACHROME 8442 9-1/2 IN. 60
VR-22-GJ-046-00192	16-17 JAN 68	046	ASHEVILLE, NORTH CAROLINA	65 RC-8	EKTA, IR 8443 9-1/2 IN. 75
VR-22-GJ-124-00193	16-17 JAN 68	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	65 RC-8	EKTA, IR 8443 9-1/2 IN. 75
VR-22-GJ-124-00194	17-19 JAN 68	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	65 RC-8	EKTA, IR 8443 9-1/2 IN. 225

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-22-GJ-150-00195	17-19 JAN 68	150	PAMLICO SOUND, NORTH CAROLINA	65	RC-8	EKTA, IR 8443 9-1/2 IN. 225
VR-22-GJ-124-00196	17-19 JAN 68	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	65	RC-8	EKTA, IR 8443 9-1/2 IN. 205
VR-22-GH-163-00197	6 FEB 68	163	BISCAYNE BAY, FLORIDA	66	RC-8	AERO EKTA, 8442 9-1/2 IN. 200
VR-22-GH-164-00198	6 FEB 68	164	BOCA RATON/BELLE GLADE, FLA.	66	RC-8	AERO EKTA, 8442 9-1/2 IN 200
VR-22-GH-162-00199	8 FEB 68	162	BAHAMA BANKS, FLORIDA	66	RC-8	AERO EKTA, 8442 9-1/2 IN. 200
VR-22-GH-164-00200	8 FEB 68	164	BOCA RATON/BELLE GLADE, FLORIDA	66	RC-8	AERO EKTA, 8442 9-1/2 IN. 200
VR-22-GH-162-00201	8-9 FEB 68	162	BAHAMA BANKS, FLORIDA	66	RC-8	AERO EKTA, 8442 9-1/2 IN. 125
VR-22-GH-163-00202	8-9 FEB 68	163	BISCAYNE BAY, FLORIDA	66	RC-8	AERO EKTA, 8442 9-1/2 IN. 125
VR-22-GH-164-00203	7 FEB 68	164	BOCA RATON/BELLE GLADE, FLORIDA	66	RC-8	EKTA, IR 8443 9-1/2 IN. 200
VR-22-GH-155-00204	10 FEB 68	155	GULF COAST FISHERIES	66	RC-8	EKTA, IR 8443 9-1/2 IN. 100
VR-22-GH-132-00205	10 FEB 68	132	NEW ORLEANS, LOUISIANA	66	RC-8	EKTA, IR 8443 9-1/2 IN. 100
VR-22-GH-146-00206	27-28 FEB 68	146	ALAFIA AND PEACE RIVERS, FLORIDA	67	RC-8	8442 9-1/2 IN. 200
VR-22-GH-147-00207	27-28 FEB 68	147	LAKES/TAMPA, FLORIDA	67	RC-8	8442 9-1/2 IN. 200
VR-22-GH-147-00208	28 FEB 68	147	LAKES/TAMPA, FLORIDA	67	RC-8	8442 9-1/2 IN. 60
VR-22-GJ-165-00209	1 MAR 68	165	DESERET/ST. MARKS, FLORIDA	67	RC-8	8442 9-1/2 IN. 263
VR-22-GH-145-00210	2 MAR 68	145	GULF COAST SPRINGS	67	RC-8	8442 9-1/2 IN. 135
VR-22-GH-992-00211	26 FEB 68	992	FIREANT	67	RC-8	8443 9-1/2 IN. 25
VR-22-GH-147-00212	28 FEB 68	147	LAKES/TAMPA, FLORIDA	67	RC-8	8443 9-1/2 IN. 100
VR-22-GJ-145-00213	1 MAR 68	145	DESERET/ST. MARKS, FLORIDA	67	RC-8	8443 9-1/2 IN. 298
VR-22-GH-145-00214	2 MAR 68	145	GULF COAST SPRINGS	67	RC-8	8443 9-1/2 IN. 200
VR-22-GJ-165-00215	2 MAR 68	165	DESERET/ST. MARKS, FLORIDA	67	RC-8	8443 9-1/2 IN. 200
VR-22-GH-145-00216	27 FEB 68	145	GULF COAST SPRINGS	67	RC-8	8443 9-1/2 IN. 200

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION		
VR-22-04-147-00217	27 FEB 68	147	LAKES/TAMPA, FLORIDA	67	RC-8	8443	9-1/2 IN. 200
VR-22-0J-135-00218	17-18 OCT 67	135	HARVEY VALLEY, CALIFORNIA	59	RC-8	EXTA. IR 8443	9-1/2 IN. 255
VR-22-0K-156-00219	17-18 OCT 67	156	WIND RIVER, WASHINGTON	59	RC-8	EXTA. IR 8443	9-1/2 IN. 255
VR-22-LL-166-00220	3-8 APR 68	166	ICELAND	70	RC-8	8442	9-1/2 IN. 245
VR-22-LL-166-00221	3-9 APR 68	166	ICELAND	70	RC-8	8443	9-1/2 IN. 360
VR-22-LL-166-00222	6-9 APR 68	166	ICELAND	70	RC-8	8401	9-1/2 IN. 368
VR-22-0K-126-00223	5 MAY 68	126	MARQUETTE/REPUBLIC TROUGHS, MICH.	72	RC-8	8401	9 1/2 256
VR-22-0J-044-00224	6-7 MAY 68	044	PURDUE, INDIANA	72	RC-8	8443	9 1/2 550
VR-22-0J-167-00225	7 MAY 68	167	LAKE MICHIGAN	72	RC-8	8443	9 1/2 90
VR-22-0K-041-00226	9 MAY 68	041	MESABI RANGE, MINNESOTA	72	RC-8	8443	9 1/2 100
VR-22-0J-044-00227	6-7 MAY 68	044	PURDUE, INDIANA	72	RC-8	8442	9 1/2 550
VR-22-0J-167-00228	7 MAY 68	167	LAKE MICHIGAN	72	RC-8	8442	9 1/2 100
VR-22-0K-126-00229	8 MAY 68	126	MARQUETTE/REPUBLIC TROUGHS, MICH.	72	RC-8	8442	9 1/2 210
VR-22-0K-041-00230	9 MAY 68	041	MESABI RANGE, MINNESOTA	72	RC-8	8442	9 1/2 120
VR-22-EJ-027-00231	21-24 MAY 68	027	SALTON SEA, CALIFORNIA	73	RC-8	8401	9-1/2 IN. 432
VR-22-EJ-130-00232	21-24 MAY 68	130	SOUTHERN CALIFORNIA	73	RC-8	8401	9-1/2 IN. 432
VR-22-EJ-157-00233	21-24 MAY 68	157	BORREGO SPRINGS, CALIFORNIA	73	RC-8	8401	9-1/2 IN. 432
VR-22-EJ-072-00234	25-27 MAY 68	072	COSO HOT SPRINGS, CALIFORNIA	73	RC-8	8442	9-1/2 IN. 185
VR-22-0J-048-00235	25-27 MAY 68	048	SAN PABLO RESERVOIR, CALIFORNIA	73	RC-8	8442	9-1/2 IN. 185
VR-22-0J-020-00236	28 MAY 68	020	BUCKS LAKE, CALIFORNIA	73	RC-8	8442	9-1/2 IN. 110
VR-22-EJ-027-00237	21-24 MAY 68	027	SALTON SEA, CALIFORNIA	73	RC-8	8443	9-1/2 IN. 450
VR-22-EJ-130-00238	21-24 MAY 68	130	SOUTHERN CALIFORNIA	73	RC-8	8443	9-1/2 IN. 450

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AC MISSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- STION	INSTRUMENT CONFIGURATION
VR-22-1-197-00239	21-24 MAY 68	197	BORRERO SPRINGS, CALIFORNIA	73 RC-8	8443 9-1/2 IN. 450
VR-22-EJ-072-00240	27 MAY 68	072	COSO HOT SPRINGS, CALIFORNIA	73 RC-8	8443 9-1/2 IN. 165
VR-22-JJ-020-00241	28 MAY 68	020	BUCKS LAKE, CALIFORNIA	73 RC-8	8443 9-1/2 IN. 110
VR-22-GJ-174-00242	20 JUN 68	174	WALLOPS ISLAND, VIRGINIA	74 RC-8	8401 9-1/2 IN. 125
VR-22-FJ-076-00243	17 JUN 68	076	GARDEN CITY, KANSAS	74 RC-8	8443 9-1/2 IN. 400
VR-22-GJ-044-00244	18 JUN 68	044	PURDUE, INDIANA	74 RC-8	8443 9-1/2 IN. 340
VR-22-GJ-168-00245	20 JUN 68	168	PATUXENT RIVER, MARYLAND	74 RC-8	8443 9-1/2 IN. 300
VR-22-FJ-076-00246	17 JUN 68	076	GARDEN CITY, KANSAS	74 RC-8	8442 9-1/2 IN. 400
VR-22-GJ-044-00247	18 JUN 68	044	PURDUE, INDIANA	74 RC-8	8442 9-1/2 IN. 362
VR-22-FJ-085-00248	17 JUN 68	085	LAWRENCE, KANSAS	74 RC-8	8442 9-1/2 IN. 160
VR-22-GH-162-00249	3 JUL 68	162	BAHAMA BANKS, FLORIDA	75 RC-8	8442 9-1/2 IN. 110
VR-22-FH-032-00250	3 JUL 68	032	WESLACO, TEXAS	75 RC-8	8442 9-1/2 IN. 263
VR-22-FH-032-00251	3 JUL 68	032	WESLACO, TEXAS	75 RC-8	8443 9-1/2 IN. 270
VR-22-JJ-036-00252	18 JUL 68	036	MT. LASSEN, CALIFORNIA	76 RC-8	8401 9-1/2 IN. 125
VR-22-EJ-022-00253	16 JUL 68	022	TONOPAH, NEVADA	76 RC-8	8442 9-1/2 IN. 65
VR-22-EJ-075-00254	16 JUL 68	075	GOLDFIELD, NEVADA	76 RC-8	8442 9-1/2 IN. 65
VR-22-EJ-022-00255	16 JUL 68	022	TONOPAH, NEVADA	76 RC-8	8443 9-1/2 IN. 70
VR-22-EJ-075-00256	16 JUL 68	075	GOLDFIELD, NEVADA	76 RC-8	8443 9-1/2 IN. 70
VR-22-JJ-036-00257	18 JUL 68	036	MT. LASSEN, CALIFORNIA	76 RC-8	8443 9-1/2 IN. 125
VR-22-FJ-076-00258	29 JUL 68	076	GARDEN CITY, KANSAS	77 RC-8	8443 9-1/2 IN. 190
VR-22-GJ-044-00259	30 JUL 68	044	PURDUE, INDIANA	77 RC-8	8443 9-1/2 IN. 465
VR-22-GJ-148-00260	1 AUG 68	148	LEHIGH RIVER, PENNSYLVANIA	77 RC-8	8443 9-1/2 IN. 125

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-22-5J-076-00261	UL 68	076	GARDEN CITY, KANSAS	77	RC-8	8442 9-1/2 IN. 200
VR-22-5J-044-00262	30 JUL 68	044	PURDUE, INDIANA	77	RC-8	8442 9-1/2 IN. 475
VR-22-5J-148-00263	1 AUG 68	148	LEHIGH RIVER, PENNSYLVANIA	77	RC-8	8442 9-1/2 IN. 125
VR-22-5J-174-00264	20 JUN 68	174	WALLCPS ISLAND, VIRGINIA	74	RC-8	8443 9-1/2 IN. 130
VR-22-5K-156-00265	30 AUG 68	156	WIND RIVER, WASHINGTON	78	RC-8	8442 9-1/2 IN. 100
VR-22-5J-019-00266	28 AUG 68	019	SONORA PASS, CALIFORNIA	78	RC-8	8443 9-1/2 IN. 40
VR-22-5J-003-00267	28 AUG 68	003	MONO CRATERS, CALIFORNIA	78	RC-8	8443 9-1/2 IN. 120
VR-22-5J-056-00268	28 AUG 68	056	MT. LASSEN, CALIFORNIA	78	RC-8	8443 9-1/2 IN. 40
VR-22-5K-040-00269	29 AUG 68	040	CASCADE MOUNTAINS, WASHINGTON	78	RC-8	8443 9-1/2 IN. 50
VR-22-5K-156-00270	30 AUG 68	156	WIND RIVER, WASHINGTON	78	RC-8	8443 9-1/2 IN. 80
VR-22-5J-019-00271	28 AUG 68	019	SONORA PASS, CALIFORNIA	78	RC-8	8401 9-1/2 IN. 190
VR-22-5J-003-00272	28 AUG 68	003	MONO CRATERS, CALIFORNIA	78	RC-8	8401 9-1/2 IN. 290
VR-22-5J-056-00273	28 AUG 68	056	MT. LASSEN, CALIFORNIA	78	RC-8	8401 9-1/2 IN. 90
VR-22-5K-040-00274	29 AUG 68	040	CASCADE MOUNTAINS, WASHINGTON	78	RC-8	8401 9-1/2 IN. 70
VR-22-5H-155-00275	11 SEP 68	155	GULF COAST FISHERIES	79	RC-8	ANSLD D-200 9-1/2 IN. 75
VR-22-5H-173-00276	10 SEP 68	173	GULF LOOP	79	RC-8	8442 9-1/2 IN. 56
VR-22-5H-164-00277	11 SEP 68	164	BOCA RATON/BELLE GLADE, FLORIDA	79	RC-8	8442 9-1/2 IN. 195
VR-22-5H-155-00278	11 SEP 68	155	GULF COAST FISHERIES	79	RC-8	8442 9-1/2 IN. 75
VR-22-5H-172-00279	16 SEP 68	172	YUCATAN PENINSULA	79	RC-8	8442 9-1/2 IN. 193
VR-22-5H-155-00280	11 SEP 68	155	GULF COAST FISHERIES	79	RC-8	8443 9-1/2 IN. 183
VR-22-5J-174-00281	12 SEP 68	174	WALLCPS ISLAND, VIRGINIA	79	RC-8	8443 9-1/2 IN. 255
VR-22-5J-168-00282	12-13 SEP 68	168	PATUXENT RIVER, MARYLAND	79	RC-8	8443 9-1/2 IN. 520

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-22-GH-172-00283	16 SEP 68	172	YUCATAN PENINSULA	79	RC-8	8443 9-1/2 IN. 200
VR-22-GJ-174-00284	12 SEP 68	174	WALLCPS ISLAND, VIRGINIA	79	RC-8	8401 9-1/2 IN. 279
VR-22-GH-171-00285	23 SEP 68	171	SABINE LAKE, LOUISIANA	80	RC-8	8443 9-1/2 IN. 285
VR-22-GJ-076-00286	27 SEP 68	076	GARDEN CITY, KANSAS	80	RC-8	8443 9-1/2 IN. 395
VR-22-GH-171-00287	23-24 SEP 68	171	SABINE LAKE, LOUISIANA	80	RC-8	8442 9-1/2 IN. 470
VR-22-GJ-076-00288	27 SEP 68	076	GARDEN CITY, KANSAS	80	RC-8	8442 9-1/2 IN. 426
VR-22-GH-992-00289	9 NOV 67	992	FIREANT	997	RC-8	EKTACHROME 8442 9-1/2 IN. 30
VR-22-GH-993-00290	30 AUG 67	993	TITUSVILLE, FLORIDA	58	RC-8	COLOR EKTACHROME 9-1/2 IN. 100
VR-22-GH-993-00291	30 AUG 67	993	TITUSVILLE, FLORIDA	58	RC-8	EKTACHROME, IR 9-1/2 IN. 100
VR-22-GH-163-00292	7-10 OCT 68	163	BISCAYNE BAY, FLORIDA	81	RC-8	8443 9-1/2 IN. 100
VR-22-GJ-165-00293	7-10 OCT 68	165	DESERET/ST. MARKS, FLORIDA	81	RC-8	8443 9-1/2 IN. 100
VR-22-GH-145-00294	11 OCT 68	145	GULF COAST SPRINGS	81	RC-8	8443 9-1/2 IN. 185
VR-22-GH-146-00295	11 OCT 68	146	ALAFIA AND PEACE RIVERS, FLORIDA	81	RC-8	8443 9-1/2 IN. 50
VR-22-GH-132-00296	11 OCT 68	132	NEW CRLEANS, LOUISIANA	81	RC-8	8443 9-1/2 IN. 40
VR-22-GH-163-00297	7-10 OCT 68	163	BISCAYNE BAY, FLORIDA	81	RC-8	8442 9-1/2 IN. 80
VR-22-GJ-165-00298	7-10 OCT 68	165	DESERET/ST. MARKS, FLORIDA	81	RC-8	8442 9-1/2 IN. 80
VR-22-GH-145-00299	11 OCT 68	145	GULF COAST SPRINGS	81	RC-8	8442 9-1/2 IN. 185
VR-22-GH-146-00300	11 OCT 68	146	ALAFIA AND PEACE RIVERS, FLORIDA	81	RC-8	8442 9-1/2 IN. 50
VR-22-GH-132-00301	11 OCT 68	132	NEW CRLEANS, LOUISIANA	81	RC-8	8442 9-1/2 IN. 40
VR-22-GJ-996-00302	14 OCT 68	996	DALLAS/FT. WORTH, TEXAS	981	RC-8	8443 9-1/2 IN. 55
VR-22-GJ-995-00303	14 OCT 68	995	ANSON/SNYDER, TEXAS	981	RC-8	8443 9-1/2 IN. 55
VR-22-GJ-030-00304	14-16 OCT 68	030	TUCSON, ARIZONA	981	RC-8	8443 9-1/2 IN. 160

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-994-00305	18-20 OCT 68	994	EL PASO, TEXAS	9A1 RC-8	8443 9-1/2 IN. 186
VR-22-EJ-181-00306	19 OCT 68	181	COLORADO RIVER DELTA	981 RC-8	8443 9-1/2 IN. 130
VR-22-EH-175-00307	23 OCT 68	175	HOUSTON, TEXAS, AREA	981 RC-8	8443 9-1/2 IN. 130
VR-22-EJ-996-00308	14 OCT 68	996	DALLAS/FT. WORTH, TEXAS	981 RC-8	8442 9-1/2 IN. 50
VR-22-EJ-995-00309	14 OCT 68	995	ANSON/SNYDER, TEXAS	981 RC-8	8442 9-1/2 IN. 40
VR-22-EJ-030-00310	14-16 OCT 68	030	TUCSON, ARIZONA	981 RC-8	8442 9-1/2 IN. 175
VR-22-EJ-994-00311	18-20 OCT 68	994	EL PASO, TEXAS	981 RC-8	8442 9-1/2 IN. 185
VR-22-EJ-181-00312	19 OCT 68	181	COLORADO RIVER DELTA	981 RC-8	8442 9-1/2 IN. 130
VR-22-EJ-176-00313	6 NOV 68	176	NEW ENGLAND	82 RC-8	8443 9-1/2 IN. 200
VR-22-EH-147-00314	8 NOV 68	147	LAKES/TAMPA,FLORIDA	82 RC-8	8443 9-1/2 IN. 400
VR-22-EJ-176-00315	6 NOV 68	176	NEW ENGLAND	82 RC-8	8442 9-1/2 IN. 150
VR-22-EH-147-00316	8 NOV 68	147	LAKES/TAMPA,FLORIDA	82 RC-8	8442 9-1/2 IN. 300
VR-22-EJ-178-00317	20 DEC 68	178	MILL CREEK, OKLAHOMA	84 RC-8	8442 9-1/2 IN. 120
VR-22-EH-179-00318	23 DEC 68	179	LAGUNA MADRE/CORPUS CHRISTI, TEXAS	84 RC-8	8442 9-1/2 IN. 215
VR-22-EJ-178-00319	20 DEC 68	178	MILL CREEK, OKLAHOMA	84 RC-8	8443 9-1/2 IN. 130
VR-22-EH-179-00320	23 DEC 68	179	LAGUNA MADRE, TEXAS	84 RC-8	8443 9-1/2 IN. 175
VR-22-EH-164-00321	14 JAN 69	164	BOCA RATON/BELLE GLADE, FLORIDA	85 RC-8	8442 9-1/2 IN. 200
VR-22-EJ-165-00322	13-15 JAN 69	165	DESERET/ST. MARKS, FLORIDA	85 RC-8	8442 9-1/2 IN. 105
VR-22-EH-146-00323	14 JAN 69	146	ALAFIA AND PEACE RIVERS, FLORIDA	85 RC-8	8443 9-1/2 IN. 475
VR-22-EH-164-00324	14 JAN 69	164	BOCA RATON/BELLE GLADE, FLORIDA	85 RC-8	8443 9-1/2 IN. 200
VR-22-EJ-165-00325	13-14 JAN 69	165	DESERET/ST. MARKS, FLORIDA	85 RC-8	8443 9-1/2 IN. 201
VR-22-EJ-183-00326	27 JAN 69	183	LORDSBURG, NEW MEXICO	86 RC-8	2448 9-1/2 IN. 100



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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-180-00327	27 JAN 69	180	GARNET MOUNTAIN, ARIZONA	A6	RC-8 2448 9-1/2 IN. 100
VR-22-FH-171-00328	26 FEB 69	171	SABINE LAKE, LOUISIANA	A7	RC-8 2448 9-1/2 IN. 400
VR-22-FH-171-00329	26 FEB 69	171	SABINE LAKE, LOUISIANA	B7	RC-8 80-117 9-1/2 IN. 400
VR-22-L-166-00330	6-14 MAR 69	166	ICELAND - SEA STATE	B8	RC-8 2402 9-1/2 IN. 457
VR-22-L-166-00331	6-11 MAR 69	166	ICELAND - SEA STATE	B8	RC-8 5424 9-1/2 IN. 100
VR-22-L-166-00332	13-14 MAR 69	166	ICELAND - SEA STATE	B8	RC-8 80-117 9-1/2 IN. 220
VR-22-H-092-00400	21-23 JUN 69	092	PUERTO RICO	98	RC-8, WRATTEN 1%, COLOR IR 80117, 9.5 IN. SCALE 1.40,000 1.40,000 1.40,000 1.40,000 1.40,000 1.40,000 1.40,000 1.10,000 1.10,000 REMARKS RAMSEY AFB-SLIGHTLY OVEREXPOSED RAMSEY-ARECIBO-VEGA 3AJA CABO SAN JUAN GUANICA-ENSENADA CLOUDS - LAGO CAONILLAS COASTLINE - PUNTA TUYA TO PONCE SAN JUAN-LAGO CAONILLAS
VR-22-H-092-00401	24-25 JUN 69	092	PUERTO RICO	98	RC-8, WRATTEN 1%, COLOR IR 80117, 9.5 IN. SCALE 1.40,000 1.10,000 1.40,000 1.40,000 1.40,000 1.40,000 1.40,000 1.10,000 REMARKS CLOUDS-WAZE, PUNTA CERRO GORDO LAGO CAONILLAS-RUARAGUAC DORADO - PUNTA JORDABADO BAHIA MONTALVA-PUNTA CERRO GORDO PALMAS ATLAS-CABO ROJO PUNTA CERRO GORDO-BAHIA MONTALVA PUNTA PETRONA-PUNTA TUYA, CLOUDY
VR-22-H-092-00402	27 JUN 69	092	PUERTO RICO	98	RC-8, WRATTEN 1%, COLOR IR 80117, 9.5 IN. SCALE 1.40,000 1.40,000 1.40,000 1.40,000 1.40,000 1.40,000 1.40,000 1.40,000 1.40,000 1.40,000 REMARKS CABO ROJO PUNTA PETRONA-CABO ROJO CABO ROJO ISLA MORRILLIO PUNTA PETRONA-CABO ROJO

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-4-092-00403	21-23 JUN 69	092 PUERTO RICO			
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	RC-8, COLOR 244R, 9.5 IN. REMARKS
	1 11	6390 - 6398	20,000 MSL	1.40,000	RAMSEY AFB
	1 12	6399 - 6417	20,000 MSL	1.40,000	RAMSEY-ARECIBO-VEGA 3AJA
	1 14	6454 - 6467	20,000 MSL	1.40,000	CABO SAN JUAN
	1 N/A	6472 - 6474	20,000 MSL	1.40,000	GUANICA-ENSENADA
	1 5	6475 - 6485	20,000 MSL	1.40,000	CLOUDS - LAGO CAONILLAS
	1 21	6486 - 6555	5,000 MSL	1.10,000	COASTLINE-PUNTA TJNA-PONCE
	1 N/A	6556 - 6607	5,000 MSL	1.10,000	SAN JUAN-LAGO CAONILLAS
VR-22-4H-092-00404	24-25 JUN 69	092 PUERTO RICO			
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	RC-8, COLOR 244R, 9.5 IN. REMARKS
	2 5	6609 - 6630	20,000 MSL	1.40,000	CLOUDS-WAZE, PUNTA CERRO GORDO
	2 N/A	6631 - 6633			
	2 20	6641 - 6658	5,000 MSL	1.10,000	LAGO CAONILLAS-GUARAGUAY
	2 4	6659 - 6687	20,000 MSL	1.40,000	DORADO-PUNTA JOSEBADO
	2 5	6688 - 6713	20,000 MSL	1.40,000	BAHIA MONTALVA-PUNTA CERRO GORDO
	2 6	6714 - 6737	20,000 MSL	1.40,000	PALMAS ATLAS-CARO 30JO
	2 5	6738 - 6761	20,000 MSL	1.40,000	PUNTA CERRO GORDO-BAHIA MONTALVA
	2 21	6763 - 6815	5,000 MSL	1.10,000	PUNTA PETRONA-PUNTA TJNA
VR-22-4H-192-00405	JUN 69	192 BARBADOS			
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	RC-8, COLOR 244R, 9.5 IN. REMARKS
	3 5	6820 - 6830	20,000 MSL	1.40,000	
	3 1	6848 - 6859	3,000 MSL	1.6000	ONLY FRAMES 684R-6916
	3 2	6870 - 6916	3,000 MSL	1.6000	MATCH COLOR IR 0789-0860
	3 6	6862 - 6903	15,000 MSL	1.30,000	
	3 3	6904 - 6915	20,000 MSL	1.40,000	
	3 5	6916 - 6921			
	3 6	6922 - 6935			
	3 4	6831 - 6842	20,000 MSL	1.40,000	
VR-22-4H-192-00406	JUN 69	192 BARBADOS			
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	RC-8, WRATTEN 15, COLOR IR 8017, 9.5 IN. REMARKS
	3 1	6799 - 6810	3,000 MSL	1.6000	BRIDGETOWN
	3 2	6811 - 6860	3,000 MSL	1.6000	NO COLOR IR WAS TAKEN FOR REST OF SITE 192
VR-22-2J-019-00407	JUL 69	019 SONORA PASS, CALIFORNIA			
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	RC-8, 500 MICROMETER, COLOR IR 8017, 6 IN. REMARKS
	2 4	46 - 49	60,000 MSL	1.120,000	MAP NO. NJ 11-4.
VR-22-2J-019-00408	JUL 69	019 SONORA PASS, CALIFORNIA			
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	RC-8, 2.2AV, COLOR 2448, 6 IN. REMARKS
	2 4	3256 - 3259	60,000 MSL	1.120,000	MAP NO. NJ 11-4.

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-003-00409	JUL 69 LINE 1 ROLL 2	003 MONO LAKE EXPOSURE NUMBERS 16 - 18	ALTITUDE 60,000 MSL	100 SCALE 1:120,000	RC-8, 500 MICROMETER, COLOR IR S0117, 6 IN. TIME 1829 - 1855 MAP NOS. NJ 11-4, NJ 11-7.
VR-22-EJ-003-00410	JUL 69 LINE 1 ROLL 2	003 MONO LAKE EXPOSURE NUMBERS 3225 - 3228	ALTITUDE 60,000 MSL	100 SCALE 1:120,000	RC-8, 2.2AV, COLOR 2448, 6 IN. MAP NOS. NJ 11-4, NJ 11-7.
VR-22-CJ-193-00411	JUL 69 LINE 3 ROLL 2	193 ELDORADO FOREST EXPOSURE NUMBERS 97 - 102	ALTITUDE 60,000 MSL	100 SCALE 1:120,000	RC-8, 500 MICROMETER, COLOR IR S0117, 6 IN. BLURRED
	JUL 69 LINE 7 ROLL 2	136 - 141	60,000 MSL	1:120,000	BLURRED
	JUL 69 LINE 8 ROLL 2	144 - 147	60,000 MSL	1:120,000	BLURRED
	JUL 69 LINE 9 ROLL 2	163 - 168	60,000 MSL	1:120,000	BLURRED
					MAP NO. NJ 10-6.
VR-22-CJ-193-00412	JUL 69 LINE 6 ROLL 2	193 ELDORADO FOREST EXPOSURE NUMBERS 3307 - 3329	ALTITUDE 60,000 MSL	100 SCALE 1:120,000	RC-8, 2.2AV, COLOR 2448, 6 IN. REMARKS
	JUL 69 LINE 7 ROLL 2	3346 - 3351	60,000 MSL	1:120,000	
	JUL 69 LINE 8 ROLL 2	3353 - 3357	60,000 MSL	1:120,000	
	JUL 69 LINE 9 ROLL 2	3393 - 3398	60,000 MSL	1:120,000	MAP NO. NJ 10-6.
VR-22-CJ-048-00413	JUL 69 LINE 7 ROLL 2	048 SAN PABLO RESERVOIR EXPOSURE NUMBERS 3332 - 3334	ALTITUDE 60,000 MSL	100 SCALE 1:120,000	RC-8, 2.2AV, COLOR 2448, 6 IN. REMARKS
	JUL 69 LINE 8 ROLL 2	3370 - 3372	60,000 MSL	1:120,000	
	JUL 69 LINE 9 ROLL 2	3377 - 3379	60,000 MSL	1:120,000	
	JUL 69 LINE 9 ROLL 2	3429 - 3432	60,000 MSL	1:120,000	MAP NO. NJ 10-8.
VR-22-CJ-048-00414	JUL 69 LINE 7 ROLL 2	048 SAN PABLO RESERVOIR EXPOSURE NUMBERS 122 - 125	ALTITUDE 60,000 MSL	100 SCALE 1:120,000	RC-8, 500 MICROMETER, COLOR IR S0117, 6 IN. REMARKS
	JUL 69 LINE 8 ROLL 2	159 - 162	60,000 MSL	1:120,000	BLURRED
	JUL 69 LINE 9 ROLL 2	168 - 171	60,000 MSL	1:120,000	BLURRED
	JUL 69 LINE 9 ROLL 2	220 - 222	60,000 MSL	1:120,000	BLURRED
					BLURRING CAUSED BY IVC FAILURE
					MAP NO. NJ 10-8.
VR-22-CJ-020-00415	JUL 69 LINE 8 ROLL 3	020 BUCKS LAKE, CALIFORNIA EXPOSURE NUMBERS 3569 - 3572	ALTITUDE 60,000 MSL	100 SCALE 1:120,000	RC-8, 2.2AV, COLOR 2448, 6 IN. REMARKS
					MAP NO. NJ 10-3.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-3J-020-00416	JUL 69	020	BUCKS LAKE, CALIFORNIA	100	RC-8, 500 MICROMETER, COLOR IR SO117, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	8	3658 - 3663	60,000 MSL	1.120,000	
VR-22-3J-109-00417	JUL 69	109	KLAMATH FALLS	100	RC-8, 2.2AV, COLOR 2448, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3457 - 3461	60,000 MSL	1.120,000	
VR-22-3J-109-00418	JUL 69	109	KLAMATH FALLS	100	RC-8, 500 MICROMETER, COLOR IR SO117, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3748 - 3752	60,000 MSL	1.120,000	
VR-22-3J-056-00419	JUL 69	056	LASSEN PARK	100	RC-8, 2.2AV, COLOR 2448, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3753 - 3758	60,000 MSL	1.120,000	
VR-22-3J-056-00420	JUL 69	056	LASSEN PARK	100	RC-8, 500 MICROMETER, COLOR IR SO117, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3801 - 3803	60,000 MSL	1.120,000	
VR-22-3J-135-00421	JUL 69	135	HARVEY VALLEY	100	RC-8, 2.2AV, COLOR 2448, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3472 - 3479	60,000 MSL	1.120,000	
VR-22-3J-135-00422	JUL 69	135	HARVEY VALLEY	100	RC-8, 500 MICROMETER, COLOR IR SO117, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3763 - 3770	60,000 MSL	1.120,000	
VR-22-3J-194-00423	AUG 69	194	DENVER, COLORADO	101	RC-8, 2.2AV, COLOR 2448, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3683 - 3685	60,000 MSL	1.120,000	
VR-22-3J-194-00424	AUG 69	194	DENVER, COLORADO	101	RC-8, 500 MICROMETER, COLOR IR SO117, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3994 - 3996	60,000 MSL	1.120,000	

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-011-00425	AUG 69	011	YELLOWSTONE PARK	101	RC-8, 2.2AV, COLOR 2448, 6 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3700A - 3712	60,000 MSL	1.120,000	
VR-22-EJ-011-00426	AUG 69	011	YELLOWSTONE PARK	101	RC-8, 500 MICROMETER, COLOR IR S0117, 6 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	4031 - 4043	60,000 MSL	1.120,000	
VR-22-EJ-149-00427	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	RC-8, 2.2AV, COLOR 2448, 6 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3717 - 3726	60,000 MSL	1.120,000	
VR-22-EJ-149-00428	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	RC-8, 500 MICROMETER, COLOR IR S0117, 6 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3727 - 3738	60,000 MSL	1.120,000	
VR-22-EJ-011-00429	AUG 69	011	YELLOWSTONE PARK	101	RC-8, 2.2AV, COLOR 2448, 6 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARK
	1	3741 - 3753	60,000 MSL	1.120,000	
	1	3754 - 3764	60,000 MSL	1.120,000	
	1	3764 - 3774	60,000 MSL	1.120,000	
	1	3776 - 3787	60,000 MSL	1.120,000	
	1	3788 - 3799	60,000 MSL	1.120,000	
	1	3800 - 3811	60,000 MSL	1.120,000	
	1	3812 - 3823	60,000 MSL	1.120,000	
VR-22-EJ-011-00430	AUG 69	011	YELLOWSTONE PARK	101	RC-8, 500 MICROMETER, COLOR IR S0117, 6 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3824 - 3839	60,000 MSL	1.120,000	
	1	3840 - 3850	60,000 MSL	1.120,000	
	1	4072 - 4094	60,000 MSL	1.120,000	
	1	4095 - 4106	60,000 MSL	1.120,000	
	1	4107 - 4118	60,000 MSL	1.120,000	
	1	4119 - 4130	60,000 MSL	1.120,000	
	1	4131 - 4142	60,000 MSL	1.120,000	

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-149-00431	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	RC-8, 2.2AV, COLOR 2448, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3914 - 3923	60,000 MSL	1.120,000	
	2	3924 - 3935	60,000 MSL	1.120,000	
	3	3936 - 3949	60,000 MSL	1.120,000	THE AIRCRAFT WAS OFF COURSE DURING THIS LINE.
VR-22-EJ-195-00432	AUG 69	195	BROOKINGS, SOUTH DAKOTA	101	RC-8, 2.2AV, COLOR 2448, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	3961 - 3973	60,000 MSL	1.120,000	
	2	3974 - 3987	60,000 MSL	1.120,000	
	3	3988 - 4001	60,000 MSL	1.120,000	
VR-22-EJ-149-00433	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	RC-8, 500 MICROMETER, COLOR IR 5017, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	4253 - 4262	60,000 MSL	1.120,000	
	2	4263 - 4274	60,000 MSL	1.120,000	
	3	4275 - 4288	60,000 MSL	1.120,000	THE AIRCRAFT WAS OFF COURSE DURING THIS LINE.
VR-22-EJ-195-00434	AUG 69	195	BROOKINGS, SOUTH DAKOTA	101	RC-8, 500 MICROMETER, COLOR IR 5017, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	4300 - 4312	60,000 MSL	1.120,000	
	2	4313 - 4326	60,000 MSL	1.120,000	
	3	4327 - 4341	60,000 MSL	1.120,000	
VR-22-EJ-186-00435	AUG 69	186	CLARKS FORK, WYOMING	101	RC-8, 2.2AV, 2448, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	4161 - 4166	60,000 MSL	1.120,000	
	2	4167 - 4173	60,000 MSL	1.120,000	
	3	4174 - 4179	60,000 MSL	1.120,000	
VR-22-EJ-186-00436	AUG 69	186	CLARKS FORK, WYOMING	101	RC-8, 500 MICROMETER, COLOR IR 5017, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	4498 - 4503	60,000 MSL	1.120,000	
	2	4504 - 4509	60,000 MSL	1.120,000	
	3	4510 - 4515	60,000 MSL	1.120,000	
VR-22-EJ-011-00437	AUG 69	011	YELLOWSTONE PARK	101	RC-8, 2.2AV, 2448, 6 IN.
	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	4180 - 4192	60,000 MSL	1.120,000	
	2	4193 - 4206	60,000 MSL	1.120,000	
	3	4207 - 4219	60,000 MSL	1.120,000	

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-011-00438	AUG 69	011	YELLOWSTONE PARK	101	RC-8, 500 MICROMETER, COLOR IR S0117, 6 IN. REMARKS
VR-22-EJ-030-00439	AUG 69	030	TUCSON/AJO, ARIZONA	101	RC-8, 2.2AV, 2448, 6 IN. REMARKS
VR-22-EJ-030-00440	AUG 69	030	TUCSON/AJO, ARIZONA	101	RC-8, 500 MICROMETER, COLOR IR S0117, 6 IN. REMARKS
VR-22-EJ-185-00441	AUG 69	185	WEST, BONANZA AREA, COLORADO	101	RC-8, 2.2AV, COLOR 2448, 6 IN. REMARKS
VR-22-EJ-185-00442	AUG 69	185	WEST, BONANZA AREA, COLORADO	101	RC-8, 500 MICROMETER, COLOR IR S0117, 6 IN. REMARKS

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-185-00443	12	AUG 69	185 EAST, BONANZA AREA, COLORADO	101	RC-8, 2.2AV, COLOR 2448, 6 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	6	11	4782 - 4805	1.120,000	CLOUD COVER APPROXIMATELY 30 PER CENT CIRRUS.
	6	12	4806 - 4830	1.120,000	CLOUD COVER APPROXIMATELY 50 PER CENT CIRRUS.
VR-22-EJ-185-00444	12	AUG 69	185 EAST, BONANZA AREA, COLORADO	101	RC-8, 500 MICROMETER, COLOR IR 50117, 6 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	11	11	5117 - 5140	1.120,000	CLOUD COVER APPROXIMATELY 30 PER CENT CIRRUS.
	11	12	5141 - 5165	1.120,000	CLOUD COVER APPROXIMATELY 50 PER CENT CIRRUS.
VR-22-EJ-185-00445	16	JUL 69	007 OREGON COAST	100	RC-8, 450 MICROMETER, D-500, 6 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	1	3	3373 - 3406	1.120,000	CLOUD COVER APPROXIMATELY 30 PER CENT CIRRUS.
	1	4	3407 - 3444	1.120,000	CLOUD COVER APPROXIMATELY 50 PER CENT CIRRUS.
VR-22-EJ-185-00446	16	JUL 69	007 OREGON COAST	100	RC-8, 2.2AV, 2448, 6 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	1	2	3444 - 3448	1.120,000	CLOUD COVER APPROXIMATELY 30 PER CENT CIRRUS.
	1	5	3449 - 3484	1.120,000	CLOUD COVER APPROXIMATELY 50 PER CENT CIRRUS.
VR-22-EJ-185-00447	27	AUG 69	039 EASTERN BEAR TOOTH MOUNTAINS	102	RC-8, ANTI-VIGN, 2448, 6 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	2	1	3855 - 3881	1.13,000	MAG. HEADING 304 DEGREE.
	2	2	3882 - 3907	1.13,000	MAG. HEADING 120 DEGREE.
VR-22-EK-039-00448	27	AUG 69	039 EASTERN BEAR TOOTH MOUNTAINS	102	RC-8, WRATTEN 16, 50117, 6 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	2	1	9810 - 9836	1.13,000	MAG. HEADING 304 DEGREE.
	2	2	9837 - 9862	1.13,000	MAG. HEADING 120 DEGREE.



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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-011-00449 27	AUG 69	011 YELLOWSTONE NATIONAL PARK	ALTTUDE	102	RC-8, ANTI-VIGN. 2448, 6 IN. MAG. HEADING 330 DEGREE. MAG. HEADING 350 DEGREE. MAG. HEADING 270 DEGREE. MAG. HEADING 200 DEGREE. MAG. HEADING 000 DEGREE. MAP NOS. NL 12-A, NL 12-9, NL 12-11, NL 12-12.
VR-22-EJ-011-00450 27	AUG 69	011 YELLOWSTONE NATIONAL PARK	ALTTUDE	102	RC-8, WRATTEN 15, 50117, 6 IN. MAG. HEADING 330 DEGREE. MAG. HEADING 350 DEGREE. MAG. HEADING 270 DEGREE. MAG. HEADING 200 DEGREE. MAG. HEADING 000 DEGREE. MAP NOS. NL 12-A, NL 12-9, NL 12-11, NL 12-12.
VR-22-EJ-186-00451 27	AUG 69	186 CLARKS FORK, WYOMING	ALTTUDE	102	RC-8, ANTI-VIGN. 2448, 6 IN. MAG. HEADING 234 DEGREE. MAG. HEADING 43 DEGREE. MAG. HEADING 234 DEGREE. MAG. HEADING 314 DEGREE. MAG. HEADING 313 DEGREE. MAG. HEADING 307 DEGREE. MAP NO. NK 13-11.
VR-22-EJ-186-00452 27	AUG 69	186 CLARKS FORK, WYOMING	ALTTUDE	102	RC-8, WRATTEN 16, 50117, 6 IN. MAG. HEADING 234 DEGREE. MAG. HEADING 43 DEGREE. MAG. HEADING 234 DEGREE. MAG. HEADING 314 DEGREE. MAG. HEADING 313 DEGREE. MAG. HEADING 307 DEGREE.
VR-22-EJ-197-00453 27	AUG 69	197 CHIPPEWA NATIONAL FOREST	ALTTUDE	102	RC-8, ANTI-VIGN. 2448, 3 IN. MAG. HEADING 260 DEGREE. FLIGHT NO. 2. MAG. HEADING 274 DEGREE. FLIGHT NO. 3. MAG. HEADING 104 DEGREE. APPROXIMATELY 10 PER CENT CLOUD COVER AND HEAVY HAZE. MAG. HEADING 274 DEGREE. CLOUD COVER, APPROX. 10-50 PER CENT ALONG FLIGHT LINE. MAG. HEADING 272 DEGREE. 3763 AND 3851 ARE TEST FRAMES. FLIGHT NO. 4. MAP NOS. NL 15-1, NL 15-2.



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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-22-EJ-076-00450	04 SEP 69	076	GARDEN CITY, KANSAS	102	RC-8, WRATTEN 15, SO-117, 6 IN.
	ROLL 4 LINE 10 EXPOSURE NUMBERS 0262 - 0274		ALTITUDE 20,000 MS-	SCALE 1:40,000	REMARKS MAG. HEADING 344 DEGREE.
	4 10	0276 - 0287	20,000 MS-	1:40,000	MAP NOS. NJ 14-4, NJ 14-7. RC-812 FRAME 0288 CAMERA TEST. MAG. HEADING 348 DEGREE.
VR-23-EJ-002-00001	11 FEB 65	002	PISCAGH CRATER, CALIFORNIA	5	RECONOFAX IV 70 MM 100
VR-23-EJ-022-00002	11 FEB 65	022	TONOPAH, NEVADA	5	RECONOFAX IV 70 MM 100
VR-23-EJ-006-00003	11 FEB 65	006	SALT LAKE, UTAH	5	RECONOFAX IV 70 MM 100
VR-23-EJ-002-00004	11 FEB 65	002	PISCAGH CRATER, CALIFORNIA	5	RECONOFAX IV 70 MM 150
VR-23-EJ-022-00005	11 FEB 65	022	TONOPAH, NEVADA	5	RECONOFAX IV 70 MM 150
VR-23-EJ-006-00006	11 FEB 65	006	SALT LAKE, UTAH	5	RECONOFAX IV 70 MM 150
VR-23-EJ-002-00007	16 FEB 65	002	PISCAGH CRATER, CALIFORNIA	5	RECONOFAX IV 70 MM 100
VR-23-EJ-022-00008	16 FEB 65	022	TONOPAH, NEVADA	5	RECONOFAX IV 70 MM 100
VR-23-EJ-006-00009	16 FEB 65	006	SALT LAKE, UTAH	5	RECONOFAX IV 70 MM 100
VR-23-EJ-087-00010	26 FEB 65	087	GOOSE BAY, LABRADOR	6	RECONOFAX IV 70 MM 50
VR-23-EJ-024-00011	3-4 JUN 65	024	SAN ANDREAS FAULT, CALIFORNIA	8	RECONOFAX IV 70 MM 75
VR-23-EJ-003-00012	3-4 JUN 65	003	MONO CHATERS, CALIFORNIA	8	RECONOFAX IV 70 MM 75
VR-23-EJ-020-00013	3-4 JUN 65	020	BUCKS LAKE, CALIFORNIA	8	RECONOFAX IV 70 MM 75
VR-23-EJ-049-00014	3-4 JUN 65	049	DAVIS, CALIFORNIA	8	RECONOFAX IV 70 MM 75
VR-23-EJ-048-00015	3-4 JUN 65	048	SAN PABLO RESERVOIR, CALIFORNIA	8	RECONOFAX IV 70 MM 75
VR-23-EJ-000-00016	30 JUN 65	000	TEST FLIGHT	12	RECONOFAX IV 70 MM 50
VR-23-EJ-031-00017	30 JUN 65	031	WILLCOX DRY LAKE, ARIZONA	12	RECONOFAX IV 70 MM 10
VR-23-EJ-000-00018	30 JUN 65	000	TEST FLIGHT	12	RECONOFAX IV 70 MM 50
VR-23-EJ-031-00019	1-2 JUL 65	031	WILLCOX DRY LAKE, ARIZONA	12	RECONOFAX IV 70 MM 50

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- sion	INSTRUMENT CONFIGURATION	
VR-23-7H-032-00020	1-2 JUL 65	032	WESLACO, TEXAS	12	RECONOFAX IV	70 MM 50
VR-23-3J-029-00021	1-2 JUL 65	029	PHOENIX, ARIZONA	12	RECONOFAX IV	70 MM 50
VR-23-7H-032-00022	1-2 JUL 65	032	WESLACO, TEXAS	12	RECONOFAX IV	70 MM 15
VR-23-3J-031-00023	1-2 JUL 65	031	WILLCOX DRY LAKE, ARIZONA	12	RECONOFAX IV	70 MM 15
VR-23-3K-040-00024	23 SEP 65	040	CASCADE MOUNTAINS, WASHINGTON	13	RECONOFAX IV	70 MM 100
VR-23-3K-040-00025	7 OCT 65	040	CASCADE MOUNTAINS, WASHINGTON	13	RECONOFAX IV	70 MM 40
VR-23-3J-007-00026	7 OCT 65	007	COAST RANGE, OREGON/WASHINGTON	13	RECONOFAX IV	70 MM 40
VR-23-3K-040-00027	7 OCT 65	040	CASCADE MOUNTAINS, WASHINGTON	13	RECONOFAX IV	70 MM 50
VR-23-3J-007-00028	7 OCT 65	007	COAST RANGE, OREGON/WASHINGTON	13	RECONOFAX IV	70 MM 50
VR-23-3K-040-00029	7 OCT 65	040	CASCADE MOUNTAINS, WASHINGTON	13	RECONOFAX IV	70 MM 25
VR-23-3J-007-00030	7 OCT 65	007	COAST RANGE, OREGON/WASHINGTON	13	RECONOFAX IV	70 MM 25
VR-23-3J-031-00031	20-22 DEC 65	031	WILLCOX DRY LAKE, ARIZONA	15	RECONOFAX IV	70 MM 20
VR-23-7H-032-00032	20-22 DEC 65	032	WESLACO, TEXAS	15	RECONOFAX IV	70 MM 20
VR-23-7H-032-00033	5 JAN 66	032	WESLACO, TEXAS	17	RECONOFAX IV	70 MM 15
VR-23-3J-031-00034	12 JAN 66	031	WILLCOX DRY LAKE, ARIZONA	18	RECONOFAX IV	70 MM 50
VR-23-3J-015-00035	12 JAN 66	015	TWIN BUTTES, ARIZONA	18	RECONOFAX IV	70 MM 50
VR-23-3J-027-00036	12 JAN 66	027	SALTEN SEA, CALIFORNIA	18	RECONOFAX IV	70 MM 50
VR-23-3J-028-00037	12 JAN 66	028	WINSLOW, ARIZONA	18	RECONOFAX IV	70 MM 50
VR-23-3J-031-00038	12 JAN 66	031	MESQUITE SEDIMENTARY, ARIZONA	18	RECONOFAX IV	70 MM 50
VR-23-3K-040-00039	6 APR 66	040	CASCADE MOUNTAINS, WASHINGTON	21	RECONOFAX IV	70 MM 40
VR-23-3J-003-00040	6 APR 66	003	MONO CRATERS, CALIFORNIA	21	RECONOFAX IV	70 MM 40
VR-23-3J-002-00041	6 APR 66	002	PISCAN CRATER, CALIFORNIA	21	RECONOFAX IV	70 MM 40

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-23-EJ-101-00042	6 APR 66	101	SAN FRANCISCO VOLCANIC FIELDS, ARIZONA	21	RECONOFAX IV	70 MM 40
VR-23-EJ-071-00043	6 APR 66	071	HOPI BUTTES, ARIZONA	21	RECONOFAX IV	70 MM 40
VR-23-EJ-114-00044	6 APR 66	114	WHITE SANDS, NEW MEXICO	21	RECONOFAX IV	70 MM 40
VR-23-JK-087-00045	25 APR 66	087	GOOSE BAY, LABRADOR	22	RECONOFAX IV	70 MM 40
VR-23-JK-087-00046	28 APR 66	087	GOOSE BAY, LABRADOR	22	RECONOFAX IV	70 MM 40
VR-23-GJ-046-00047	19 MAY 66	046	ASHEVILLE, NORTH CAROLINA	23	RECONOFAX IV	70 MM 10
VR-23-WH-032-00048	16 MAY 66	032	WESLACO, TEXAS	24	RECONOFAX IV	70 MM 30
VR-23-GJ-043-00049	29 JUN 66	043	CHICAGO, ILLINOIS	25	RECONOFAX IV	70 MM 20
VR-23-GJ-043-00050	29 JUN 66	043	CHICAGO, ILLINOIS	25	RECONOFAX IV	70 MM 20
VR-23-GJ-043-00051	30 JUN 66	043	CHICAGO, ILLINOIS	25	RECONOFAX IV	70 MM 15
VR-23-GH-128-00052	6 JUL 66	128	MISSISSIPPI DELTA, LOUISIANA	26	RECONOFAX IV	70 MM 140
VR-23-GH-128-00053	6 JUL 66	128	MISSISSIPPI DELTA, LOUISIANA	26	RECONOFAX IV	70 MM 30
VR-23-GH-128-00054	6 JUL 66	128	MISSISSIPPI DELTA, LOUISIANA	26	RECONOFAX IV	70 MM 80
VR-23-GH-128-00055	6 JUL 66	128	MISSISSIPPI DELTA, LOUISIANA	26	RECONOFAX IV	70 MM 60
VR-23-WH-032-00056	8 JUL 66	032	WESLACO, TEXAS	27	RECONOFAX IV	70 MM 20
VR-23-GJ-024-00057	1 AUG 66	024	SAN ANDREAS FAULT, CALIFORNIA	28	RECONOFAX IV	70 MM 50
VR-23-EJ-114-00058	1 AUG 66	114	WHITE SANDS, NEW MEXICO	28	RECONOFAX IV	70 MM 50
VR-23-EJ-130-00059	1 AUG 66	130	SOUTHERN CALIFORNIA	28	RECONOFAX IV	70 MM 50
VR-23-EJ-130-00060	12 AUG 66	130	SOUTHERN CALIFORNIA	29	RECONOFAX IV	70 MM 50
VR-23-EJ-003-00061	3 SEP 66	003	MONO CRATERS, CALIFORNIA	30	RECONOFAX IV	70 MM 50
VR-23-EJ-019-00062	3 SEP 66	019	SONORA PASS, CALIFORNIA	30	RECONOFAX IV	70 MM 50
VR-23-GJ-020-00063	3 SEP 66	020	BUCKS LAKE, CALIFORNIA	30	RECONOFAX IV	70 MM 50

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-23-EJ-052-00064	3 SEP 66	052	NEVADA AEC	30	RECONOFAX IV	70 MM 50
VR-23-EJ-043-00065	15 SEP 66	043	CHICAGO, ILLINOIS	31	RECONOFAX IV TX-475	70 MM 25
VR-23-EJ-011-00066	23 SEP 66	011	YELLOWSTONE NATIONAL PARK, WYOMING/ MONTANA/IDAHO	32	RECONOFAX IV TX-475	70 MM 50
VR-23-EJ-046-00067	10-14 OCT 66	046	ASHEVILLE, NORTH CAROLINA	34	RECONOFAX IV TX-475	70 MM 100
VR-23-EJ-099-00068	10-14 OCT 66	099	FLORIDA STRAITS	34	RECONOFAX IV TX-475	70 MM 100
VR-23-EJ-138-00069	10-14 OCT 66	138	GULFSTREAM NORTH	34	RECONOFAX IV TX-475	70 MM 100
VR-23-EJ-032-00070	5 DEC 66	032	WESLACO, TEXAS	35	RECONOFAX IV TX-475	70 MM 20
VR-23-EJ-095-00071	9 DEC 66	095	EVERGLADES, FLORIDA	36	RECONOFAX IV TX-475	70 MM 35
VR-23-EJ-098-00072	9 DEC 66	098	HOMESTEAD, FLORIDA	36	RECONOFAX IV TX-475	70 MM 35
VR-23-EJ-102-00073	9 DEC 66	102	STATENVILLE/LAKE CITY, FLORIDA, PHOSPHATE	36	RECONOFAX IV TX-475	70 MM 35
VR-23-EJ-103-00074	9 DEC 66	103	CRYSTAL RIVER, FLORIDA	36	RECONOFAX IV TX-475	70 MM 35
VR-23-EJ-104-00075	9 DEC 66	104	WAUCHULA/TAMPA, FLORIDA	36	RECONOFAX IV TX-475	70 MM 35
VR-23-EJ-099-00076	21 FEB 67	099	FLORIDA STRAITS	40	RECONOFAX IV TX-475	70 MM 60
VR-23-EJ-128-00077	24 FEB 67	128	MISSISSIPPI DELTA, LOUISIANA	41	RECONOFAX IV TX-475	70 MM 200
VR-23-EJ-014-00078	14-17 MAR 67	014	LITTLE DRAGON MOUNTAINS, ARIZONA	43	RECONOFAX IV TX-415	70 MM 15
VR-23-EJ-029-00079	14-17 MAR 67	029	PHOENIX, ARIZONA	43	RECONOFAX IV TX-415	70 MM 15
VR-23-EJ-101-00080	14-17 MAR 67	101	SAN FRANCISCO VOLCANIC FIELDS, ARIZONA	43	RECONOFAX IV TX-415	70 MM 15
VR-23-EJ-114-00081	14-17 MAR 67	114	WHITE SANDS, NEW MEXICO	43	RECONOFAX IV TX-415	70 MM 15
VR-23-EJ-002-00082	24 MAR 67	002	PIGSM CRATER, CALIFORNIA	44	RECONOFAX IV TX-415	70 MM 76
VR-23-EJ-051-00083	24 MAR 67	051	MESQUITE SEDIMENTARY, ARIZONA	44	RECONOFAX IV TX-415	70 MM 76
VR-23-EJ-134-00085	24 MAR 67	134	AMBOY CRATER, CALIFORNIA	44	RECONOFAX IV TX-415	70 MM 76

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-23-GH-095-00086	12 JUN 67	095	EVERGLADES, FLORIDA	50	RECONOFAX IV TX-475	70 MM 128
VR-23-GH-099-00087	12 JUN 67	099	FLORIDA STRAITS	50	RECONOFAX IV TX-475	70 MM 128
VR-23-GH-108-00088	12 JUN 67	108	CUTLER AREA SUBMARINE SPRING, FLA.	50	RECONOFAX IV TX-475	70 MM 128
VR-23-GH-128-00089	12 JUN 67	128	MISSISSIPPI DELTA, LOUISIANA	50	RECONOFAX IV TX-475	70 MM 128
VR-23-GH-085-00090	3 AUG 67	085	LAWRENCE, KANSAS	54	RECONOFAX IV TX-475	70 MM 60
VR-23-GH-118-00091	3 AUG 67	118	MISSOURI RIVER, NORTH DAKOTA	54	RECONOFAX IV TX-475	70 MM 60
VR-23-GJ-144-00092	3 AUG 67	144	WISCONSIN SAND PLAINS	54	RECONOFAX IV TX-475	70 MM 60
VR-23-GJ-044-00093	4 AUG 67	044	PURDUE, INDIANA	54	RECONOFAX IV TX-475	70 MM 20
VR-23-GJ-044-00094	5 AUG 67	044	PURDUE, INDIANA	54	RECONOFAX IV TX-475	70 MM 20
VR-23-GJ-076-00095	5 AUG 67	076	GARDEN CITY, KANSAS	54	RECONOFAX IV TX-475	70 MM 20
VR-23-GK-156-00096	15 AUG 67	156	WIND RIVER, WASHINGTON	55	RECONOFAX IV TRJ-X	70 MM 20
VR-23-GJ-007-00097	19 AUG 67	007	COAST RANGE, OREGON/WASHINGTON	55	RECONOFAX IV TRJ-X	70 MM 55
VR-23-GJ-048-00098	19 AUG 67	048	SAN PABLO RESERVOIR, CALIFORNIA	55	RECONOFAX IV TRJ-X	70 MM 55
VR-23-GJ-056-00099	19 AUG 67	056	MT. LASSEN, CALIFORNIA	55	RECONOFAX IV TRJ-X	70 MM 55
VR-23-GH-146-00100	18-21 SEP 67	146	ALAFIA AND PEACE RIVERS, FLORIDA	57	RECONOFAX IV TRJ-X	70 MM 190
VR-23-GH-158-00101	18-21 SEP 67	158	CORPUS CHRISTI, TEXAS/GULF OF MEXICO	57	RECONOFAX IV TRJ-X	70 MM 190
VR-23-GJ-159-00102	18-21 SEP 67	159	HORSEFLY MOUNTAIN, OREGON	57	RECONOFAX IV TRJ-X	70 MM 190
VR-23-GJ-020-00103	17-21 OCT 67	020	BUCKS LAKE, CALIFORNIA	59	RECONOFAX IV TRJ-X	70 MM 95
VR-23-EJ-051-00104	17-21 OCT 67	051	MESQUITE SEDIMENTARY, ARIZONA	59	RECONOFAX IV TRJ-X	70 MM 95
VR-23-GJ-135-00105	17-21 OCT 67	135	HARVEY VALLEY, CALIFORNIA	59	RECONOFAX IV TRJ-X	70 MM 95
VR-23-GK-156-00106	17-21 OCT 67	156	WIND RIVER, WASHINGTON	59	RECONOFAX IV TRJ-X	70 MM 95
VR-23-GJ-159-00107	17-21 OCT 67	159	HORSEFLY MOUNTAIN, OREGON	59	RECONOFAX IV TRJ-X	70 MM 95

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-23-4J-086-00108	15 MAR 66	086	ARGUS ISLE, BERMUDA	20	RECONOFAX IV	70 MM 65
VR-23-4J-086-00109	15 MAR 66	086	ARGUS ISLE, BERMUDA	20	RECONOFAX IV	70 MM 60
VR-23-4J-138-00110	15 MAR 66	138	CULPSTREAM NORTH	20	RECONOFAX IV	70 MM 100
VR-23-5J-129-00111	13-17 NOV 67	129	ARKANSAS BASIN	61	RECONOFAX IV TRJ-X	70 MM 100
VR-23-5J-085-0J112	13-17 NOV 67	085	LAWRENCE, KANSAS	61	RECONOFAX IV TRJ-X	70 MM 100
VR-23-5J-076-00113	13-17 NOV 67	076	GARDEN CITY, KANSAS	61	RECONOFAX IV TRJ-X	70 MM 100
VR-23-5J-079-00114	13-17 NOV 67	079	MATEWAN, KENTUCKY	61	RECONOFAX IV TRJ-X	70 MM 100
VR-23-3J-141-00115	13-17 NOV 67	141	CHARLESTON/COLUMBIA, SOUTH CAROLINA	61	RECONOFAX IV TRJ-X	70 MM 100
VR-23-5H-032-00116	4 DEC 67	032	WESLACO, TEXAS	62	RECONOFAX IV TRJ-X	70 MM 30
VR-23-6H-132-00117	6 DEC 67	132	NEW ORLEANS, LOUISIANA	62	RECONOFAX IV TRJ-X	70 MM 25
VR-23-5J-133-00118	6 DEC 67	133	MICHUD, LOUISIANA	62	RECONOFAX IV TRJ-X	70 MM 25
VR-23-6J-134-00119	6 DEC 67	134	SLIDELL, LOUISIANA	62	RECONOFAX IV TRJ-X	70 MM 25
VR-23-5J-137-00120	6 DEC 67	137	MISSISSIPPI TEST FACILITY	62	RECONOFAX IV TRJ-X	70 MM 25
VR-23-3J-165-00121	5 JAN 68	165	DESERET/ST, MARKS, FLORIDA	964	RECONOFAX IV TRJ-X	70 MM 15
VR-23-6H-128-00122	5-10 FEB 68	128	MISSISSIPPI DELTA, LOUISIANA	66	RECONOFAX IV TRJ-X	70 MM 69
VR-23-6H-132-00123	5-10 FEB 68	132	NEW ORLEANS, LOUISIANA	66	RECONOFAX IV TRJ-X	70 MM 65
VR-23-3H-163-00124	5-10 FEB 68	163	BISCAYNE BAY, FLORIDA	66	RECONOFAX IV TRJ-X	70 MM 100
VR-23-3H-164-00125	5-10 FEB 68	164	BOCA RATON/BELLE GLADE, FLORIDA	66	RECONOFAX IV TRJ-X	70 MM 100
VR-23-3H-145-00126	27 FEB 68	145	GULF COAST SPRINGS	67	RECONOFAX IV TRJ-X	70 MM 70
VR-23-6H-146-00127	27 FEB 68	146	ALAFIA AND PEACE RIVERS, FLORIDA	67	RECONOFAX IV TRJ-X	70 MM 70
VR-23-6H-147-00128	27 FEB 68	147	LAKE8/TAMPA, FLORIDA	67	RECONOFAX IV TRJ-X	70 MM 75
VR-23-6J-165-00129	27 FEB 68	165	DESERET/ST, MARKS, FLORIDA	67	RECONOFAX IV TRJ-X	70 MM 75



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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION		
VR-23-K-041-00130	7 MAY 68	041	MESABI RANGE, MINNESOTA	72	RECONOFAX IV	TRI-K	70MM 75
VR-23-GJ-044-00131	7 MAY 68	044	PURDUE, INDIANA	72	RECONOFAX IV	TRI-K	70MM 75
VR-23-GK-126-00132	7 MAY 68	126	MARQUETTE/REPUBLIC TROUGHS, MICH.	72	RECONOFAX IV	TRI-K	70MM 75
VR-23-GJ-167-00133	7 MAY 68	167	LAKE MICHIGAN	72	RECONOFAX IV	TRI-K	70MM 75
VR-23-EJ-027-00134	21-24 MAY 68	027	SALTEN SEA, CALIFORNIA	73	RECONOFAX IV	TRI-K	70 MM 200
VR-23-EJ-130-00135	21-24 MAY 68	130	SOUTHERN CALIFORNIA	73	RECONOFAX IV	TRI-K	70 MM 200
VR-23-EJ-157-00136	21-24 MAY 68	157	BORREGO SPRINGS, CALIFORNIA	73	RECONOFAX IV	TRI-K	70 MM 200
VR-23-EJ-072-00137	20 MAY 68	072	COSO HOT SPRINGS, CALIFORNIA	73	RECONOFAX IV	TRI-K	70 MM 70
VR-23-GJ-020-00138	28 MAY 68	020	BUCKS LAKE, CALIFORNIA	73	RECONOFAX IV	TRI-K	70 MM 40
VR-23-GJ-048-00139	28 MAY 68	048	SAN PABLO RESERVOIR, CALIFORNIA	73	RECONOFAX IV	TRI-K	70 MM 40
VR-23-EJ-076-00140	17 JUN 68	076	GARDEN CITY, KANSAS	74	RECONOFAX IV	TRI-K	70 MM 50
VR-23-EJ-085-00141	18 JUN 68	085	LAWRENCE, KANSAS	74	RECONOFAX IV	TRI-K	70 MM 25
VR-23-GJ-044-00142	18-19 JUN 68	044	PURDUE, INDIANA	74	RECONOFAX IV	TRI-K	70 MM 50
VR-23-GJ-168-00143	20 JUN 68	168	PATUXENT RIVER, MARYLAND	74	RECONOFAX IV	TRI-K	70 MM 30
VR-23-GH-162-00144	3 JUL 68	162	BAHAMA BANKS, FLORIDA	75	RECONOFAX IV	TRI-K	70 MM 23
VR-23-EJ-032-00145	8 JUL 68	032	WESLACO, TEXAS	75	RECONOFAX IV	TRI-K	70 MM 30
VR-23-EJ-022-00146	16-17 JUL 68	022	TONOPAH, NEVADA	76	RECONOFAX IV	5063	70 MM 30
VR-23-EJ-075-00147	16-17 JUL 68	075	GOLDFIELD, NEVADA	76	RECONOFAX IV	5063	70 MM 35
VR-23-GJ-056-00148	18-19 JUL 68	056	MT. LASSEN, CALIFORNIA	76	RECONOFAX IV	5063	70 MM 60
VR-23-EJ-076-00149	29 JUL 68	076	GARDEN CITY, KANSAS	77	RECONOFAX IV	5063	70 MM 50
VR-23-GJ-044-00150	30 JUL 68	044	PURDUE, INDIANA	77	RECONOFAX IV	5063	70 MM 60
VR-23-GJ-148-00151	1 AUG 68	148	LEHIGH RIVER, PENNSYLVANIA	77	RECONOFAX IV	5063	70 MM 45

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-23-GJ-174-00152	20 JUN 68	174	WALLCPS ISLAND, VIRGINIA	74	RECONOFAX IV	TRI-X 70 MM 20
VR-23-GH-146-00153	11 OCT 68	146	ALAFIA AND PEACE RIVERS, FLORIDA	81	RECONOFAX IV	TRI-X 70 MM 25
VR-23-GH-147-00154	11 OCT 68	147	LAKES/TAMPA, FLORIDA	81	RECONOFAX IV	TRI-X 70 MM 29
VR-23-GH-145-00155	11 OCT 68	145	GULF COAST SPRINGS	81	RECONOFAX IV	TRI-X 70 MM 17
VR-23-GH-132-00156	11 OCT 68	132	NEW ORLEANS, LOUISIANA	81	RECONOFAX IV	TRI-X 70 MM 19
VR-23-GH-163-00157	11 OCT 68	163	BISCAYNE BAY, FLORIDA	81	RECONOFAX IV	TRI-X 70 MM 11
VR-23-GJ-165-00158	11 OCT 68	165	DESERET/ST. MARKS, FLORIDA	81	RECONOFAX IV	TRI-X 70 MM 11
VR-23-4J-161-00159	6 NOV 68	161	RARITAN RIVER, NEW JERSEY	82	RECONOFAX IV	TRI-X 70 MM 17
VR-23-4J-152-00160	6 NOV 68	152	BARNEGAT BAY, NEW JERSEY	82	RECONOFAX IV	TR-X 70 MM 33
VR-23-4J-176-00161	6 NOV 68	176	NEW ENGLAND	82	RECONOFAX IV	TRI-X 70 MM 51
VR-23-GH-147-00162	6 NOV 68	147	LAKES/TAMPA, FLORIDA	82	RECONOFAX IV	TRI-X 70 MM 32
VR-23-H-171-00163	24 SEP 68	171	SABINE LAKE, LOUISIANA	80	RECONOFAX IV	TRI-X 70 MM 21
VR-23-GK-118-00164	26 SEP 68	118	MISSOURI RIVER, NORTH DAKOTA	80	RECONOFAX IV	TRI-X 70 MM 25
VR-23-EJ-076-00165	27 SEP 68	076	GARDEN CITY, KANSAS	80	RECONOFAX IV	TRI-X 70 MM 14
VR-23-EJ-178-00166	20 DEC 68	178	MILL CREEK, OKLAHOMA	84	RECONOFAX IV	TRI-X 70 MM 65
VR-23-FH-179-00167	23 DEC 68	179	LAGUNA MADRE/CORPUS CHRISTI, TEXAS	84	RECONOFAX IV	TRI-X 70 MM 40
VR-23-GH-146-00168	13-15 JAN 69	146	ALAFIA AND PEACE RIVERS, FLORIDA	85	RECONOFAX IV	TRI-X 70 MM 46
VR-23-GH-164-00169	13-15 JAN 69	164	BOCA RATON/BELLE GLADE, FLORIDA	85	RECONOFAX IV	TRI-X 70 MM 62
VR-23-GJ-165-00170	13-15 JAN 69	165	DESERET/ST. MARKS, FLORIDA	85	RECONOFAX IV	TRI-X 70 MM 16
VR-23-EJ-183-00171	27-28 JAN 69	183	LORDSBURG, NEW MEXICO	86	RECONOFAX IV	TRI-X 70 MM 50
VR-23-EJ-180-00172	29 JAN 69	180	GARNET MOUNTAIN, ARIZONA	86	RECONOFAX IV	TRI-X 70 MM 35
VR-24-GJ-043-00001	30 JUN 66	043	CHICAGO, ILLINOIS	25	AAS-5	TRI-X 35 MM 15

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-24-3H-128-00002	6 JUL 66	128	MISSISSIPPI DELTA, LOUISIANA	26 AAS-5	TX-417	35 MM 40
VR-24-3H-032-00003	8 JUL 66	032	WESLACO, TEXAS	27 AAS-5	TX-417	35 MM 10
VR-24-3J-024-00004	1 AUG 66	024	SAN ANDREAS FAULT, CALIFORNIA	28 AAS-5	JV	35 MM 30
VR-24-3J-114-00005	1 AUG 66	114	WHITE SANDS, NEW MEXICO	28 AAS-5	JV	35 MM 30
VR-24-3J-003-00006	2 AUG 66	003	MONO CRATERS, CALIFORNIA	30 AAS-5		35 MM 40
VR-24-3J-020-00007	2 AUG 66	020	BUCKS LAKE, CALIFORNIA	30 AAS-5		35 MM 40
VR-24-3J-019-00008	2 AUG 66	019	SONORA PASS, CALIFORNIA	30 AAS-5		35 MM 40
VR-24-3J-052-00009	2 AUG 66	052	NEVADA AEC	30 AAS-5		35 MM 40
VR-24-0J-043-00010	15 SEP 66	043	CHICAGO, ILLINOIS	31 AAS-5	TX-417	35 MM 25
VR-24-3J-011-00011	23 SEP 66	011	YELLOWSTONE NATIONAL PARK, WYOMING/ MONTANA/IDAHO	32 AAS-5	TX-417	35 MM 50
VR-24-6J-046-00012	10-14 OCT 66	046	ASHEVILLE, NORTH CAROLINA	34 AAS-5	TX-417	35 MM 40
VR-24-6H-099-00013	10-14 OCT 66	099	FLORIDA STRAITS	34 AAS-5	TX-417	35 MM 40
VR-24-4J-138-00014	10-14 OCT 66	138	GULFSTREAM NORTH	34 AAS-5	TX-417	35 MM 40
VR-24-5H-032-00015	5 DEC 66	032	WESLACO, TEXAS	35 AAS-5	TX-417	35 MM 18
VR-24-6H-095-00016	9 DEC 66	095	EVERGLADES, FLORIDA	36 AAS-5	TX-417	35 MM 50
VR-24-3H-098-00017	9 DEC 66	098	HOMESTEAD, FLORIDA	36 AAS-5	TX-417	35 MM 50
VR-24-6J-102-00018	9 DEC 66	102	STATENVILLE/LAKE CITY, FLORIDA, PHOSPHATE	36 AAS-5	TX-417	35 MM 50
VR-24-6H-103-00019	9 DEC 66	103	CRISTAL RIVER, FLORIDA	36 AAS-5	TX-417	35 MM 50
VR-24-3H-104-00020	9 DEC 66	104	VAUGHALA/TAMPA, FLORIDA	36 AAS-5	TX-417	35 MM 50
VR-24-6H-126-00021	14 DEC 66	126	MISSISSIPPI DELTA, LOUISIANA	37 AAS-5	TX-417	35 MM 15
VR-24-3H-099-00022	21 FEB 67	099	FLORIDA STRAITS	40 AAS-5	TX-417	35 MM 15

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-24-3H-120-00023	24 FEB 67	120	MISSISSIPPI DELTA, LOUISIANA	41	AAS-5	TX-4i7 35 MM 60
VR-24-EJ-014-00024	14-17 MAR 67	014	LITTLE DRAGON MOUNTAINS, ARIZONA	43	AAS-5	TX-4i7 35 MM 30
VR-24-EJ-029-00025	14-17 MAR 67	029	PHOENIX, ARIZONA	43	AAS-5	TX-4i7 35 MM 30
VR-24-EJ-101-00026	14-17 MAR 67	101	SAN FRANCISCO VOLCANIC FIELDS, ARIZONA	43	AAS-5	TX-4i7 35 MM 30
VR-24-EJ-114-00027	14-17 MAR 67	114	WHITE SANDS, NEW MEXICO	43	AAS-5	TX-4i7 35 MM 30
VR-24-EJ-002-00028	24 MAR 67	002	PISGAH CRATER, CALIFORNIA	44	AAS-5	TX-4i7 35 MM 50
VR-24-EJ-051-00029	24 MAR 67	051	MESEQUITE SEDIMENTARY, ARIZONA	44	AAS-5	TX-4i7 35 MM 50
VR-24-EJ-052-00030	24 MAR 67	052	NEVADA AEC	44	AAS-5	TX-4i7 35 MM 50
VR-24-EJ-154-00031	24 MAR 67	154	AMBOY CRATER, CALIFORNIA	44	AAS-3	TX-4i7 35 MM 50
VR-24-6H-095-00032	12-15 JUN 67	095	EVERGLADES, FLORIDA	50	AAS-5	TX-4i7 35 MM 115
VR-24-6H-099-00033	12-15 JUN 67	099	FLORIDA STRAITS	50	AAS-5	TX-4i7 35 MM 115
VR-24-3H-108-00034	12-15 JUN 67	108	CUTLER AREA SUBMARINE SPRING, FLA.	50	AAS-5	TX-4i7 35 MM 115
VR-24-3H-120-00035	12-15 JUN 67	120	MISSISSIPPI DELTA, LOUISIANA	50	AAS-5	TX-4i7 35 MM 115
VR-24-FH-032-00036	7 JUL 67	032	WESLACO, TEXAS	951	AAS-5	TRI-X 35 MM 30
VR-24-6J-044-00037	29 JUN 67	044	PURDUE, INDIANA	52	AAS-5	TX-4i7 35 MM 20
VR-24-6J-044-00038	5 AUG 67	044	PURDUE, INDIANA	54	AAS-5	TX-4i7 35 MM 75
VR-24-EJ-076-00039	5 AUG 67	076	GARDEN CITY, KANSAS	54	AAS-5	TX-4i7 35 MM 75
VR-24-EJ-085-00040	5 AUG 67	085	LAWRENCE, KANSAS	54	AAS-5	TX-4i7 35 MM 75
VR-24-FK-118-00041	5 AUG 67	118	MISSOURI RIVER, NORTH DAKOTA	54	AAS-5	TX-4i7 35 MM 75
VR-24-6J-144-00042	5 AUG 67	144	WISCONSIN SAND PLAINS	54	AAS-5	TX-4i7 35 MM 75
VR-24-3J-007-00043	19 AUG 67	007	COAST RANGE, OREGON/WASHINGTON	55	AAS-5	TX-4i7 35 MM 35
VR-24-3J-048-00044	19 AUG 67	048	SAN PABLO RESERVOIR, CALIFORNIA	55	AAS-5	TX-4i7 35 MM 35

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION		
VR-24-3J-056-00045	19 AUG 67	056	MT. LASSEN, CALIFORNIA	55	AAS-5	TX-417	35 MM 35
VR-24-3K-156-00046	19 AUG 67	156	WIND RIVER, WASHINGTON	55	AAS-5	TX-417	35 MM 35
VR-24-3H-158-00047	20-22 SEP 67	158	CORPUS CHRISTI, TEXAS/GULF OF MEXICO	57	AAS-5	TRI-X	35 MM 80
VR-24-3H-146-00048	20-22 SEP 67	146	ALAFIA AND PEACE RIVERS, FLORIDA	57	AAS-5	TRI-X	35 MM 80
VR-24-3J-020-00049	17-18 OCT 67	020	BUCKS LAKE, CALIFORNIA	59	AAS-5	TRI-X	35 MM 30
VR-24-3J-135-00050	17-18 OCT 67	135	HARVEY VALLEY, CALIFORNIA	59	AAS-5	TRI-X	35 MM 30
VR-24-3J-129-00051	13-17 NOV 67	129	ARKANSAS BASIN	61	AAS-5	TRI-X	35 MM 30
VR-24-3J-085-00052	13-17 NOV 67	085	LAWRENCE, KANSAS	61	AAS-5	TRI-X	35 MM 30
VR-24-3J-076-00053	13-17 NOV 67	076	GARDEN CITY, KANSAS	61	AAS-5	TRI-X	35 MM 30
VR-24-3J-079-00054	13-17 NOV 67	079	MATEMAN, KENTUCKY	61	AAS-5	TRI-X	35 MM 30
VR-24-3H-032-00055	4 DEC 67	032	WESLACO, TEXAS	62	AAS-5	TRI-X	35 MM 30
VR-24-3H-146-00056	27 FEB 68	146	ALAFIA AND PEACE RIVERS, FLORIDA	67	AAS-5	TRI-X	35 MM 10
VR-24-3K-041-00057	7-9 MAY 68	041	MESABI RANGE MINNESOTA	72	AAS-5	TRI-X	35MM 10
VR-24-6J-167-00058	7-9 MAY 68	167	LAKE MICHIGAN	72	AAS-5	TRI-X	35MM 10
VR-24-3J-027-00059	21-24 MAY 68	027	SALTON SEA, CALIFORNIA	73	AAS-5	TRI-X	35 MM 70
VR-24-3J-130-00060	21-24 MAY 68	130	SOUTHERN CALIFORNIA	73	AAS-5	TRI-X	35 MM 70
VR-24-3J-157-00061	21-24 MAY 68	157	BORRIGO SPRINGS, CALIFORNIA	73	AAS-5	TRI-X	35 MM 70
VR-24-3J-072-00062	26 MAY 68	072	COSO HOT SPRINGS, CALIFORNIA	73	AAS-5	TRI-X	35 MM 15
VR-24-3J-020-00063	28 MAY 68	020	BUCKS LAKE, CALIFORNIA	73	AAS-5	TRI-X	35 MM 25
VR-24-3J-076-00064	19 JUN 68	076	GARDEN CITY, KANSAS	74	AAS-5	TRI-X	35 MM 22
VR-24-3J-085-00065	19 JUN 68	085	LAWRENCE, KANSAS	74	AAS-5	TRI-X	35 MM 15
VR-24-6J-044-00066	18-19 JUN 68	044	PURDUE, INDIANA	74	AAS-5	TRI-X	35 MM 21

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION		
VR-24-EH-032-00068	8 JUL 68	032	WESLACO, TEXAS	75	AAS-5	TRI-X	35 MM 27
VR-24-EJ-022-00069	16 JUL 68	022	TONOPAH, NEVADA	76	AAS-5	TRI-X	35 MM 22
VR-24-EJ-075-00070	16 JUL 68	075	GOLDFIELD, NEVADA	76	AAS-5	TRI-X	35 MM 13
VR-24-EJ-076-00071	27 SEP 68	076	GARDEN CITY, KANSAS	80	AAS-5	TRI-X	35 MM 66
VR-24-GH-146-00072	11 OCT 68	146	ALAFIA AND PEACE RIVERS, FLORIDA	81	AAS-5	TRI-X	35 MM 22
VR-25-EH-032-00005	21 JUN 65	032	WESLACO, TEXAS	11	NIKON DATA PANEL		35 MM 20
VR-25-EJ-031-00006	1 JUL 65	031	WILLCOX DRY LAKE, ARIZONA	12	NIKON DATA PANEL PLUS-X		35 MM 100
VR-25-EJ-029-00007	1 JUL 65	029	PHOENIX, ARIZONA	12	NIKON DATA PANEL PLUS-X		35 MM 100
VR-25-EH-032-00008	1 JUL 65	032	WESLACO, TEXAS	12	NIKON DATA PANEL PLUS-X		35 MM 100
VR-25-EJ-014-00009	1 JUL 65	014	LITTLE DRAGON MOUNTAINS, ARIZONA	12	NIKON DATA PANEL PLUS-X		35 MM 100
VR-25-DK-040-00010	23-24 SEP 65	040	CASCADE MOUNTAINS, WASHINGTON	13	NIKON DATA PANEL PLUS-X		35 MM 50
VR-25-DJ-020-00011	26 SEP 65	020	ELLYS LAKE, CALIFORNIA	13	NIKON DATA PANEL PLUS-X		35 MM 50
VR-25-DJ-048-00012	28 SEP 65	048	SAN PABLO RESERVOIR, CALIFORNIA	13	NIKON DATA PANEL PLUS-X		35 MM 25
VR-25-DK-049-00013	28 SEP 65	049	DAVIS, CALIFORNIA	13	NIKON DATA PANEL PLUS-X		35 MM 25
VR-25-DJ-050-00014	28 SEP 65	050	DONNER PASS, CALIFORNIA	13	NIKON DATA PANEL PLUS-X		35 MM 25
VR-25-EJ-003-00015	30 SEP 65	003	MONO CRATERS, CALIFORNIA	13	NIKON DATA PANEL PLUS-X		35 MM 100
VR-25-EJ-000-00017	2 OCT 65	000	SONORA, ARIZONA	13	NIKON DATA PANEL PLUS-X		35 MM 25
VR-25-GJ-046-00018	15 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14	NIKON DATA PANEL PLUS-X		35 MM 100
VR-25-GJ-046-00019	19 NOV 65	046	ASHEVILLE, NORTH CAROLINA	14	NIKON DATA PANEL PLUS-X		35 MM 100
VR-25-GJ-043-GJ020	19 NOV 65	043	CHICAGO, ILLINOIS	14	NIKON DATA PANEL PLUS-X		35 MM 100
VR-25-EJ-031-00021	18 DEC 65	031	WILLCOX DRY LAKE, ARIZONA	15	NIKON DATA PANEL PLUS-X		35 MM 25
VR-25-EH-032-00022	22 DEC 65	032	WESLACO, TEXAS	16	NIKON DATA PANEL PLUS-X		35 MM 25

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-25-2H-032-00023	5 JAN 66	032	WESLACO, TEXAS	17	NIKON DATA PANEI PLUS-X	35 MM 50
VR-25-2J-031-00024	7-8 JAN 66	031	WILLCOX DRY LAKE, ARIZONA	18	NIKON DATA PANEI PLUS-X	35 MM 50
VR-25-2J-028-00025	7-8 JAN 66	028	WINSLOW, ARIZONA	18	NIKON DATA PANEI PLUS-X	35 MM 50
VR-25-2J-031-00026	8-9 JAN 66	031	MESQUITE SEDIMENTARY, ARIZONA	18	NIKON DATA PANEI PLUS-X	35 MM 50
VR-25-2J-015-00027	8-9 JAN 66	015	TWIN BUTTES, ARIZONA	18	NIKON DATA PANEI PLUS-X	35 MM 50
VR-25-2J-015-00028	10 JAN 66	015	TWIN BUTTES, ARIZONA	18	NIKON DATA PANEI PLUS-X	35 MM 50
VR-25-2J-027-00029	10 JAN 66	027	SALTEN SEA, CALIFORNIA	18	NIKON DATA PANEI PLUS-X	35 MM 50
VR-25-2J-027-00030	12 JAN 66	027	SALTEN SEA, CALIFORNIA	18	NIKON DATA PANEI PLUS-X	35 MM 50
VR-25-2J-029-00031	15 FEB 66	029	PHOENIX, ARIZONA	19	NIKON DATA PANEI PLUS-X	35 MM 50
VR-25-4J-086-00032	6 MAR 66	086	ARGUS ISLE, BERMUDA	20	NIKON DATA PANEI PLUS-X	35 MM 35
VR-25-4J-086-00033	7-8 MAR 66	086	ARGUS ISLE, BERMUDA	20	NIKON DATA PANEI PLUS-X	35 MM 35
VR-25-4J-086-00034	9-10 MAR 66	086	ARGUS ISLE, BERMUDA	20	NIKON DATA PANEI PLUS-X	35 MM 35
VR-25-4J-086-00035	10-11 MAR 66	086	ARGUS ISLE, BERMUDA	20	NIKON DATA PANEI PLUS-X	35 MM 35
VR-25-2J-114-00036	2 APR 66	114	WHITE SANDS, NEW MEXICO	21	NIKON DATA PANEI PLUS-X	35 MM 25
VR-25-2J-101-00037	2 APR 66	101	SAN FRANCISCO VOLCANIC FIELDS, ARIZONA	21	NIKON DATA PANEI PLUS-X	35 MM 25
VR-25-2K-040-00038	4-5 APR 66	040	CASCADE MOUNTAINS, WASHINGTON	21	NIKON DATA PANEI PLUS-X	35 MM 25
VR-25-2J-003-00039	4-5 APR 66	003	MONO CRATERS, CALIFORNIA	21	NIKON DATA PANEI PLUS-X	35 MM 25
VR-25-2J-002-00040	5 APR 66	002	PISCAN CRATER, CALIFORNIA	21	NIKON DATA PANEI PLUS-X	35 MM 50
VR-25-2H-032-00041	14 MAY 66	032	WESLACO, TEXAS	24	NIKON DATA PANEI PLUS-X	35 MM 25
VR-25-GJ-043-00042	30 JUN 66	043	CHICAGO, ILLINOIS	25	NIKON DATA PANEI PLUS-X	35 MM 75
VR-25-3J-088-00043	30 JUN 66	088	MISSISSIPPI VALLEY, MISSOURI/TENN.	25	NIKON DATA PANEI PLUS-X	35 MM 75
VR-25-3H-128-00044	6 JUL 66	128	MISSISSIPPI DELTA, LOUISIANA	26	NIKON DATA PANEI PLUS-X	35 MM 60

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-25-FH-032-00045	8 JUL 66	032	WESLACO, TEXAS	27	NIKON DATA PANEL PLUS-X	35 MM 50
VR-25-CJ-024-00046	29 JUL 66	024	SAN ANDREAS FAULT, CALIFORNIA	28	NIKON DATA PANEL PLUS-X	9-1/2 IN. 40
VR-25-EJ-114-00047	29 JUL 66	114	WHITE SANDS, NEW MEXICO	28	NIKON DATA PANEL PLUS-X	9-1/2 IN. 40
VR-25-EJ-130-00048	29 JUL 66	130	SOUTHERN CALIFORNIA	28	NIKON DATA PANEL PLUS-X	9-1/2 IN. 40
VR-25-EJ-130-00049	11 AUG 66	130	SOUTHERN CALIFORNIA	29	NIKON DATA PANEL PLUS-X	35 MM 50
VR-25-CJ-135-00050	30 AUG 66 3 SEP 66	135	HARVEY VALLEY, CALIFORNIA	30	NIKON DATA PANEL PLUS-X	35 MM 93
VR-25-EJ-003-00051	30 AUG 66 3 SEP 66	003	MONO CRATERS, CALIFORNIA	30	NIKON DATA PANEL PLUS-X	35 MM 93
VR-25-EJ-019-00052	30 AUG 66 3 SEP 66	019	SONORA PASS, CALIFORNIA	30	NIKON DATA PANEL PLUS-X	35 MM 93
VR-25-CJ-120-00053	30 AUG 66 3 SEP 66	020	BUCKS LAKE, CALIFORNIA	30	NIKON DATA PANEL PLUS-X	35 MM 93
VR-25-CJ-043-00054	15 SEP 66	043	CHICAGO, ILLINOIS	31	NIKON DATA PANEL PLUS-X	35 MM 25
VR-25-EJ-011-00055	19-22 SEP 66	011	YELLOWSTONE NATIONAL PARK, WYOMING/ MONTANA/IDAHO	32	NIKON DATA PANEL PLUS-X	35 MM 90
VR-25-EJ-114-00056	3 OCT 66	114	WHITE SANDS, NEW MEXICO	33	NIKON DATA PANEL PLUS-X	35 MM 8
VR-25-CJ-046-00057	10-14 OCT 66	046	ASHEVILLE, NORTH CAROLINA	34	NIKON DATA PANEL PLUS-X	35 MM 160
VR-25-GH-099-00058	10-14 OCT 66	099	FLORIDA STRAITS	34	NIKON DATA PANEL PLUS-X	35 MM 160
VR-25-CJ-138-00059	10-14 OCT 66	138	GULFSTREAM NORTH	34	NIKON DATA PANEL PLUS-X	35 MM 160
VR-25-FH-032-00060	5 DEC 66	032	WESLACO, TEXAS	35	NIKON DATA PANEL PLUS-X	35 MM 25
VR-25-GH-095-00061	9 DEC 66	095	EVERGLADES, FLORIDA	36	NIKON DATA PANEL PLUS-X	35 MM 44
VR-25-GH-098-00062	9 DEC 66	098	HOMESTEAD, FLORIDA	36	NIKON DATA PANEL PLUS-X	35 MM 44
VR-25-CJ-102-00063	9 DEC 66	102	STATENVILLE/LAKE CITY, FLORIDA. PHOSPHATE	36	NIKON DATA PANEL PLUS-X	35 MM 44



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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-25-34-103-00064	9 DEC 66	103	CRYSTAL RIVER, F-ORIDA	36	NIKON DATA PANEI PLUS-X	35 MM 44
VR-25-34-104-00065	9 DEC 66	104	WAUCHALA/TAMPA, FLORIDA	36	NIKON DATA PANEI PLUS-X	35 MM 44
VR-25-34-128-00066	14 DEC 66	128	MISSISSIPPI DELTA, LOUISIANA	37	NIKON DATA PANEI PLUS-X	35 MM 20
VR-25-4J-086-00067	22-25 JAN 67	086	ARGUS ISLE, BERMUDA	38	NIKON DATA PANEI PLUS-X	35 MM 120
VR-25-3J-114-00068	4 FEB 67	114	WHITE SANDS, NEW MEXICO	39	NIKON DATA PANEI PLUS-X	35 MM 160
VR-25-6H-099-00069	21-24 FEB 67	099	FLORIDA STRAITS	40	NIKON DATA PANEI PLUS-X	35 MM 70
VR-25-6J-102-00070	21-24 FEB 67	102	STATENVILLE/LAKE CITY, FLORIDA, PHOSPHATE	40	NIKON DATA PANEI PLUS-X	35 MM 70
VR-25-3H-103-00071	21-24 FEB 67	103	CRYSTAL RIVER, F-ORIDA	40	NIKON DATA PANEI PLUS-X	35 MM 70
VR-25-6H-104-00072	21-24 FEB 67	104	WAUCHALA/TAMPA, FLORIDA	40	NIKON DATA PANEI PLUS-X	35 MM 70
VR-25-3H-128-00073	24 FEB 67	128	MISSISSIPPI DELTA, LOUISIANA	41	NIKON DATA PANEI PLUS-X	35 MM 110
VR-25-3J-014-00074	14-16 MAR 67	014	LITTLE DRAGON MOUNTAINS, ARIZONA	43	NIKON DATA PANEI PLUS-X	35 MM 90
VR-25-3J-029-00075	14-16 MAR 67	029	PHOENIX, ARIZONA	43	NIKON DATA PANEI PLUS-X	35 MM 90
VR-25-3J-101-00076	14-16 MAR 67	101	SAN FRANCISCO VOLCANIC FIELDS, ARIZONA	43	NIKON DATA PANEI PLUS-X	35 MM 90
VR-25-3J-114-00077	14-16 MAR 67	114	WHITE SANDS, NEW MEXICO	43	NIKON DATA PANEI PLUS-X	35 MM 90
VR-25-3J-002-00078	21-24 MAR 67	002	PISCAM CRATER, CALIFORNIA	44	NIKON DATA PANEI PLUS-X	35 MM 160
VR-25-3J-051-00079	21-24 MAR 67	051	MESQUITE SEDIMENTARY, ARIZONA	44	NIKON DATA PANEI PLUS-X	35 MM 160
VR-25-5J-052-00080	21-24 MAR 67	052	NEVADA AEC	44	NIKON DATA PANEI PLUS-X	35 MM 160
VR-25-3J-154-00081	21-24 MAR 67	154	ANBOY CRATER, CALIFORNIA	44	NIKON DATA PANEI PLUS-X	35 MM 160
VR-25-6H-099-00082	12-16 JUN 67	099	EVERGLADES, FLORIDA	50	NIKON DATA PANEI PLUS-X	35 MM 95
VR-25-6H-099-00083	12-16 JUN 67	099	FLORIDA STRAITS	50	NIKON DATA PANEI PLUS-X	35 MM 95
VR-25-6H-108-00084	12-16 JUN 67	108	CUTLER AREA SUBMARINE SPRING, FLA.	50	NIKON DATA PANEI PLUS-X	35 MM 95

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-25-3H-128-00085	12-16 JUN 67	128	MISSISSIPPI DELTA, LOUISIANA	50	NIKON DATA PANEL PLUS-X	35 MM 95
VR-25-3H-032-00086	23 JUN 67	032	WESLACO, TEXAS	51	NIKON DATA PANEL PLUS-X	35 MM 18
VR-25-3H-032-00087	7 JUL 67	032	WESLACO, TEXAS	951	NIKON DATA PANEL PLUS-X	35 MM 15
VR-25-3J-044-00088	29 JUN 67	044	PURDUE, INDIANA	52	NIKON DATA PANEL PLUS-X	35 MM 18
VR-25-3J-085-00089	7 AUG 67	085	LAWRENCE, KANSAS	54	NIKON DATA PANEL PLUS-X	35 MM 15
VR-25-3K-118-00090	7 AUG 67	118	MISSOURI RIVER, NORTH DAKOTA	54	NIKON DATA PANEL PLUS-X	35 MM 15
VR-25-3J-044-00091	7 AUG 67	044	PURDUE, INDIANA	54	NIKON DATA PANEL PLUS-X	35 MM 15
VR-25-3J-144-00092	7 AUG 67	144	WISCONSIN SAND PLAINS	54	NIKON DATA PANEL PLUS-X	35 MM 15
VR-25-3J-044-00093	7 AUG 67	044	PURDUE, INDIANA	54	NIKON DATA PANEL PLUS-X	35 MM 15
VR-25-3J-044-00094	7 AUG 67	044	PURDUE, INDIANA	54	NIKON DATA PANEL PLUS-X	35 MM 15
VR-25-3J-076-00095	7 AUG 67	076	GARDEN CITY, KANSAS	54	NIKON DATA PANEL PLUS-X	35 MM 15
VR-25-3J-007-00096	21 AUG 67	007	COAST RANGE, OREGON/WASHINGTON	55	NIKON DATA PANEL PLUS-X	35 MM 40
VR-25-3J-048-00097	21 AUG 67	048	SAN PABLO RESERVOIR, CALIFORNIA	55	NIKON DATA PANEL PLUS-X	35 MM 40
VR-25-3J-056-00098	21 AUG 67	056	MT. LASSEN, CALIFORNIA	55	NIKON DATA PANEL PLUS-X	35 MM 40
VR-25-3K-156-00099	21 AUG 67	156	WIND RIVER, WASHINGTON	55	NIKON DATA PANEL PLUS-X	35 MM 40
VR-25-3H-158-00100	18-21 SEP 67	158	CORPUS CHRISTI, TEXAS/GULF OF MEXICO	57	NIKON DATA PANEL PLUS-X	35 MM 105
VR-25-3H-146-00101	18-21 SEP 67	146	ALAFIA AND PEACE RIVERS, FLORIDA	57	NIKON DATA PANEL PLUS-X	35 MM 105
VR-25-3J-020-00102	7-21 OCT 67	020	BUCKS LAKE, CALIFORNIA	59	NIKON DATA PANEL PLUS-X	35 MM 64
VR-25-3J-051-00103	7-21 OCT 67	051	MESQUITE SEDIMENTARY, ARIZONA	59	NIKON DATA PANEL PLUS-X	35 MM 64
VR-25-3J-135-00104	7-21 OCT 67	135	HARVEY VALLEY, CALIFORNIA	59	NIKON DATA PANEL PLUS-X	35 MM 64
VR-25-3K-156-00105	7-21 OCT 67	156	WIND RIVER, WASHINGTON	59	NIKON DATA PANEL PLUS-X	35 MM 64
VR-25-3J-159-00106	7-21 OCT 67	159	HORSEFLY MOUNTAIN, OREGON	59	NIKON DATA PANEL PLUS-X	35 MM 64

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION		
VR-25-JK-160-00107	31 OCT 67	160	NEUFUNDLAND COAST (ARGENTIA)	60	NIKON DATA	PANEI PLUS-X	35 MM 100
VR-25-J-129-00109	13-16 NOV 67	129	ARKANSAS BASIN	61	NIKON DATA	PANEI PLUS-X	35 MM 50
VR-25-J-085-00110	13-16 NOV 67	085	LAWRENCE, KANSAS	61	NIKON DATA	PANEI PLUS-X	35 MM 50
VR-25-J-076-00111	13-16 NOV 57	076	GARDEN CITY, KANSAS	61	NIKON DATA	PANEI PLUS-X	35 MM 50
VR-25-GJ-079-00112	13-16 NOV 67	079	MATEMAN, KENTUCKY	61	NIKON DATA	PANEI PLUS-X	35 MM 50
VR-25-GJ-141-00113	13-16 NOV 67	141	CHARLESTON/COLUMBIA, SOUTH CAROLINA	61	NIKON DATA	PANEI PLUS-X	35 MM 50
VR-25-FH-032-00114	4-6 DEC 67	032	WESLACO, TEXAS	62	NIKON DATA	PANEI PLUS-X	35 MM 65
VR-25-GH-132-00115	4-6 DEC 67	132	NEW ORLEANS, LOUISIANA	62	NIKON DATA	PANEI PLUS-X	35 MM 65
VR-25-GJ-133-00116	4-6 DEC 67	133	MICHOU, LOUISIANA	62	NIKON DATA	PANEI PLUS-X	35 MM 65
VR-25-GJ-134-00117	4-6 DEC 67	134	SLIDELL, LOUISIANA	62	NIKON DATA	PANEI PLUS-X	35 MM 65
VR-25-GJ-137-00118	4-6 DEC 67	137	MISSISSIPPI TEST FACILITY	62	NIKON DATA	PANEI PLUS-X	35 MM 65
VR-25-GJ-165-00119	5 JAN 68	165	DESERET/ST, MARKS, FLORIDA	964	NIKON DATA	PANEI PLUS-X	35 MM 25
VR-25-GH-128-00120	5-10 FEB 68	128	MISSISSIPPI DELTA, LOUISIANA	66	NIKON DATA	PANEI PLUS-X	35 MM 40
VR-25-GH-162-00121	5-10 FEB 68	162	BAHAMA BANKS, FLORIDA	66	NIKON DATA	PANEI PLUS-X	35 MM 40
VR-25-GH-163-00122	5-10 FEB 68	163	B'WAYNE BAY, FLORIDA	66	NIKON DATA	PANEI PLUS-X	35 MM 40
VR-25-GH-164-00123	5-10 FEB 68	164	BOCA RATON/BELLE GLADE, FLORIDA	66	NIKON DATA	PANEI PLUS-X	35 MM 40
VR-25-GH-195-00124	5-10 FEB 68	195	GULF COAST FISHERIES	66	NIKON DATA	PANEI PLUS-X	35 MM 25
VR-25-GH-145-00125	28 FEB 68	145	GULF COAST SPRINGS	67	NIKON DATA	PANEI PLUS-X	35 MM 80
VR-25-GH-146-00126	28 FEB 68	146	ALAFIA AND PEACE RIVERS, FLORIDA	67	NIKON DATA	PANEI PLUS-X	35 MM 80
VR-25-GH-147-00127	2 MAR 68	147	LAKES/TAMPA, FLORIDA	67	NIKON DATA	PANEI PLUS-X	35 MM 90
VR-25-GJ-165-00128	2 MAR 68	165	DESERET/ST, MARKS, FLORIDA	67	NIKON DATA	PANEI PLUS-X	35 MM 90
VR-25-FK-041-00129	7-10 MAY 68	041	MESABI RANGE, MINNESOTA	72	NIKON-DATA	PANEI TRI-X	35MM 100

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-25-GJ-044-00130	7-10 MAY 68	044	PURDUE, INDIANA	72	NIKON-DATA	35MM 100
VR-25-GK-126-00131	7-10 MAY 68	126	MARGUERITE/REPUBLIC TROUGHS, MICH.	72	NIKON-DATA	35MM 100
VR-25-GJ-167-00132	7-10 MAY 68	167	LAKE MICHIGAN	72	NIKON-DATA	35MM 100
VR-25-GJ-020-00133	21-28 MAY 68	020	BUCKS LAKE, CALIFORNIA	73	NIKON DATA	35 MM 25
VR-25-EJ-027-00134	21-28 MAY 68	027	SALTON SEA, CALIFORNIA	73	NIKON DATA	35 MM 25
VR-25-GJ-048-00135	21-28 MAY 68	048	SAN PABLO RESERVOIR, CALIFORNIA	73	NIKON DATA	35 MM 40
VR-25-EJ-072-00136	21-28 MAY 68	072	COSO HOT SPRINGS, CALIFORNIA	73	NIKON DATA	35 MM 40
VR-25-EJ-130-00137	21-28 MAY 68	130	SOUTHERN CALIFORNIA	73	NIKON DATA	35 MM 60
VR-25-EJ-076-00138	17 JUN 68	076	GARDEN CITY, KANSAS	74	NIKON DATA	35 MM 30
VR-25-EJ-085-00139	18 JUN 68	085	LAWRENCE, KANSAS	74	NIKON DATA	35 MM 15
VR-25-GJ-044-00140	18-19 JUN 68	044	PURDUE, INDIANA	74	NIKON DATA	35 MM 30
VR-25-GJ-168-00141	20 JUN 68	168	PATUXENT RIVER, MARYLAND	74	NIKON DATA	35 MM 18
VR-25-GH-162-00142	3 JUL 68	162	BAHAMA BANKS, FLORIDA	75	NIKON DATA	35 MM 23
VR-25-EH-032-00143	8 JUL 68	032	WESLACO, TEXAS	75	NIKON DATA	35 MM 30
VR-25-GJ-056-00144	18-19 JUL 68	056	MT. LASSEN, CALIFORNIA	76	NIKON DATA	35 MM 20
VR-25-EJ-022-00145	18 JUL 68	022	TONOPAH, NEVADA	76	NIKON DATA	35 MM 10
VR-25-EJ-075-00146	18 JUL 68	075	GOLDFIELD, NEVADA	76	NIKON DATA	35 MM 10
VR-25-EJ-076-00147	29 JUL 68	076	GARDEN CITY, KANSAS	77	NIKON DATA	35 MM 25
VR-25-GJ-044-00148	30 JUL 68	044	PURDUE, INDIANA	77	NIKON DATA	35 MM 30
VR-25-GJ-148-00149	1 AUG 68	148	LEHIGH RIVER, PENNSYLVANIA	77	NIKON DATA	35 MM 22
VR-25-GJ-174-00150	20 JUN 68	174	WALLOPS ISLAND, VIRGINIA	74	NIKON DATA	35 MM 12
VR-25-EH-171-00151	23-24 SEP 68	171	SABINE LAKE, LOUISIANA	80	NIKON DATA	35 MM 65

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-25-K-118-00152	26 SEP 68	118	MISSOURI RIVER, NORTH DAKOTA	80	NIKON DATA PANEL	PLUS-X 35 MM 12
VR-25-J-076-00153	26-27 SEP 68	076	GARDEN CITY, KANSAS	80	NIKON DATA PANEL	PLUS-X 35 MM 76
VR-25-J-165-00154	11 OCT 68	165	DESERET/ST. MARKS, FLORIDA	81	NIKON DATA PANEL	PLUS-X 35 MM 15
VR-25-GH-163-00155	11 OCT 68	163	BISCAYNE BAY, FLORIDA	81	NIKON DATA PANEL	PLUS-X 35 MM 15
VR-25-GH-145-00156	11 OCT 68	145	GULF COAST SPRINGS	81	NIKON DATA PANEL	PLUS-X 35 MM 15
VR-25-GH-146-00157	11 OCT 68	146	ALAFIA AND PEACE RIVERS, FLORIDA	81	NIKON DATA PANEL	PLUS-X 35 MM 16
VR-25-GH-147-00158	11 OCT 68	147	LAKES/TAMPA, FLORIDA	81	NIKON DATA PANEL	PLUS-X 35 MM 15
VR-25-GH-132-00159	11 OCT 68	132	NEW ORLEANS, LOUISIANA	81	NIKON DATA PANEL	PLUS-X 35 MM 16
VR-25-J-996-00160	14 OCT 68	996	DALLAS/FT. WORTH, TEXAS	981	NIKON DATA PANEL	PLUS-X 35 MM 1
VR-25-J-995-00161	14 OCT 68	995	ANSON/SNYDER, TEXAS	981	NIKON DATA PANEL	PLUS-X 35 MM 5
VR-25-J-030-00162	15-18 OCT 68	030	TUCSON, ARIZONA	981	NIKON DATA PANEL	PLUS-X 35 MM 22
VR-25-J-181-00163	19 OCT 68	181	COLORADO RIVER DELTA	981	NIKON DATA PANEL	PLUS-X 35 MM 19
VR-25-J-994-00164	16-20 OCT 68	994	EL PASO, TEXAS	981	NIKON DATA PANEL	PLUS-X 35 MM 24
VR-25-GH-175-00165	23 OCT 68	175	HOUSTON, TEXAS, AREA	981	NIKON DATA PANEL	PLUS-X 35 MM 17
VR-25-J-161-00166	5 NOV 68	161	RARITAN RIVER, NEW JERSEY	82	NIKON DATA PANEL	PLUS-X 35 MM 15
VR-25-J-152-00167	5 NOV 68	152	BARNEGAT BAY, NEW JERSEY	82	NIKON DATA PANEL	PLUS-X 35 MM 32
VR-25-J-176-00168	6 NOV 68	176	NEW ENGLAND	82	NIKON DATA PANEL	PLUS-X 35 MM 46
VR-25-GH-147-00169	8 NOV 68	147	LAKES/TAMPA, FLORIDA	82	NIKON DATA PANEL	PLUS-X 35 MM 32
VR-25-J-178-00170	20 DEC 68	178	MILL CREEK, OKLAHOMA	84	NIKON DATA PANEL	PLUS-X 35 MM 40
VR-25-GH-179-00171	23 DEC 68	179	LAGUNA MADRE/CORPUS CHRISTI, TEXAS	84	NIKON DATA PANEL	PLUS-X 35 MM 51
VR-25-GH-146-00172	13-15 JAN 69	146	ALAFIA AND PEACE RIVERS, FLORIDA	85	NIKON DATA PANEL	PLUS-X 35 MM 50
VR-25-GH-164-00173	13-15 JAN 69	164	BOCA RATON/BELLE GLADE, FLORIDA	85	NIKON DATA PANEL	PLUS-X 35 MM 28

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-25-3J-165-00174	13-15 JAN 69	165	DESERET/ST. MARKS, FLORIDA	85	NIKON DATA PANEL PLUS-X	35 MM 28
VR-25-3J-163-00175	27 JAN 69	163	LORDESBURG, NEW MEXICO	86	NIKON DATA PANEL PLUS-X	35 MM 23
VR-25-3J-160-00176	27 JAN 69	160	GARNET MOUNTAIN, ARIZONA	86	NIKON DATA PANEL PLUS-X	35 MM 24
VR-25-3H-171-00177	26 FEB 69	171	SABINE LAKE, LOUISIANA	87	NIKON DATA PANEL PLUS-X	35 MM 50
VR-26-3J-031-00001	7-8 JAN 65	031	WILLCOX DRY LAKE, ARIZONA	4	PLUS-X	9-1/2 IN. 180
VR-26-3J-051-00002	9 JAN 65	051	MESQUITE SEDIMENTARY, ARIZONA	4	DJP, POS.	9-1/2 IN. 180
VR-26-3J-015-00003	9 JAN 65	015	TWIN BUTTES, ARIZONA	4	DJP, POS.	9-1/2 IN. 180
VR-26-3J-002-00004	11 JAN 65	002	PISCAG CRATER, CALIFORNIA	4	DJP, POS.	9-1/2 IN. 75
VR-26-3J-022-00005	16 FEB 65	022	TONOPAH, NEVADA	5	PLUS-X	9-1/2 IN. 180
VR-26-3J-006-00006	16 FEB 65	006	SALT LAKE, UTAH	5	PLUS-X	9-1/2 IN. 180
VR-26-3J-031-00007	2 JUN 65	031	WILLCOX DRY LAKE, ARIZONA	6	PLUS-X	9-1/2 IN. 180
VR-26-3J-014-00008	2 JUN 65	014	LITTLE DRAGON MOUNTAINS, ARIZONA	6	PLUS-X	9-1/2 IN. 180
VR-26-3J-024-00009	3 JUN 65	024	SAN ANDREAS FAULT, CALIFORNIA	6	PLUS-X	9-1/2 IN. 180
VR-26-3J-024-00010	3 JUN 65	024	SAN ANDREAS FAULT, CALIFORNIA	6	DJP, POS.	9-1/2 IN. 180
VR-26-3J-020-00011	5 JUN 65	020	BUCKS LAKE, CALIFORNIA	6	INFRARED	9-1/2 IN. 12
VR-26-3J-020-00012	5 JUN 65	020	BUCKS LAKE, CALIFORNIA	6	B/W INFRARED	9-1/2 IN. 13
VR-26-3J-002-00013	23 JUN 65	002	PISCAG CRATER, CALIFORNIA	11	PLUS-X	9-1/2 IN. 180
VR-26-3J-029-00014	1 JUL 65	029	PHOENIX, ARIZONA	12	PLUS-X	9-1/2 IN. 185
VR-26-3J-015-00015	10 JAN 66	015	TWIN BUTTES, ARIZONA	18	INFRARED	9-1/2 IN. 95
VR-26-3H-032-00016	6 JUL 66	032	WESLACO, TEXAS	27	PLUS-X	9-1/2 IN. 290
VR-26-3J-052-00017	3 SEP 66	052	NEVADA AEC	30	PLUS-X	9-1/2 IN. 75
VR-26-3H-099-00018	21 FEB 67	099	FLORIDA STRAITS	40	PLUS-X	9-1/2 IN. 130

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-26-EJ-101-00019	10 MAR 67	101	SAN FRANCISCO VOLCANIC FIELDS, ARIZONA	43	PLUS-X 9-1/2 IN. 65
VR-26-EJ-014-00020	15 MAR 67	014	LITTLE DRAGOON MOUNTAINS, ARIZONA	43	AERO EKTACHROME 9-1/2 IN. 75
VR-26-EJ-029-00021	15 MAR 67	029	PHOENIX, ARIZONA	43	AERO EKTACHROME 9-1/2 IN. 75
VR-26-EJ-052-00022	23 MAR 67	052	NEVADA AEC	44	AERO EKTACHROME 9-1/2 IN. 150
VR-26-GH-099-00023	15 JUN 67	099	FLORIDA STRAITS	50	PLUS-X 9-1/2 IN. 130
VR-26-GJ-044-00024	29 JUN 67	044	PURDUE, INDIANA	52	PLUS-X 9-1/2 IN. 100
VR-26-GJ-056-00025	21 AUG 67	056	MT. LASSEN, CALIFORNIA	55	PLUS-X 9-1/2 IN. 100
VR-26-GH-158-00026	18-19 SEP 67	158	CORPUS CHRISTI, TEXAS/GULF OF MEXICO	57	PLUS-X 5401 9-1/2 IN. 430
VR-26-EJ-051-00027	20 OCT 67	051	MESQUITE SEDIMENTARY, ARIZONA	59	5424 3/W IR 9-1/2 IN. 100
VR-26-EJ-051-00028	20-21 OCT 67	051	MESQUITE SEDIMENTARY, ARIZONA	59	5401 PLUS-X 9-1/2 IN. 360
VR-26-EJ-076-00029	13-17 NOV 67	076	GARDEN CITY, KANSAS	61	PLUS-X 5401 9-1/2 IN. 430
VR-26-EJ-129-00030	13-17 NOV 67	129	ARKANSAS BASIN	61	PLUS-X 5401 9-1/2 IN. 430
VR-26-GJ-141-00031	13-17 NOV 67	141	CHARLESTON/COLUMBIA, SOUTH CAROLINA	61	PLUS-X 5401 9-1/2 IN. 430
VR-26-GJ-165-00032	5 JAN 68	165	DESERET/ST. MARKS, FLORIDA	964	EKTACHROME 8442 9-1/2 IN. 200
VR-26-GH-128-00033	5-7 FEB 68	128	MISSISSIPPI DELTA, LOUISIANA	66	PLUS-X 5401 9-1/2 IN. 183
VR-26-GH-163-00034	5-7 FEB 68	163	BISCAYNE BAY, FLORIDA	66	PLUS-X 5401 9-1/2 IN. 183
VR-26-GH-164-00035	5-7 FEB 68	164	BOCA RATON/BELLE GLADE, FLORIDA	66	PLUS-X 5401 9-1/2 IN. 183
VR-26-GH-162-00036	7-8 FEB 68	162	BAHAMA BANKS, FLORIDA	66	PLUS-X 5401 9-1/2 IN. 185
VR-26-GH-164-00037	7-8 FEB 68	164	BOCA RATON/BELLE GLADE, FLORIDA	66	PLUS-X 5401 9-1/2 IN. 185
VR-26-GH-162-00038	8-9 FEB 68	162	BAHAMA BANKS, FLORIDA	66	PLUS-X 5401 9-1/2 IN. 103
VR-26-GH-163-00039	8-9 FEB 68	163	BISCAYNE BAY, FLORIDA	66	PLUS-X 5401 9-1/2 IN. 103

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION		
VR-26-GH-126-00040	10 FEB 68	128	MISSISSIPPI DELTA, LOUISIANA	66	T-11	PLUS-X 5401	9-1/2 IN. 168
VR-26-GH-132-00041	10 FEB 68	132	NEW ORLEANS, LOUISIANA	66	T-11	PLUS-X 5401	9-1/2 IN. 168
VR-26-GH-147-00042	28 FEB 68	147	LAKES/TAMPA, FLORIDA	67	T-11	8401	9-1/2 IN. 306
VR-26-GH-162-00043	3 JUL 68	162	BAHAMA BANKS, FLORIDA	75	T-11	8401	9-1/2 IN. 112
VR-27-3L-093-00001	17 MAY 67	093	PT. BARROW, ALASKA	47	APS	PLUS-X	35 MM 150
VR-28-3L-093-00001	17 MAY 67	093	PT. BARROW, ALASKA	47	RADIO-METER	DACOMATIC 5461	70 MM 50
VR-29-3L-093-00001	11-17 MAY 67	093	PT. BARROW, ALASKA	47	RS-7	5498 RAR	70 MM 150
VR-29-CL-143-00002	11-17 MAY 67	143	COOK INLET, ALASKA	47	RS-7	5498 RAR	70 MM 150
VR-29-GJ-150-00003	10 JUL 67	150	PAMLICO SOUND, NORTH CAROLINA	53	RS-7	TRI-X	70 MM 15
VR-29-GJ-142-00004	11-12 JUL 67	142	DELAWARE ESTUARY, PENNSYLVANIA/ NEW JERSEY	53	RS-7	TRI-X	70 MM 40
VR-29-3J-148-00005	11-12 JUL 67	148	LEHIGH RIVER, PENNSYLVANIA	53	RS-7	TRI-X	70 MM 40
VR-29-GJ-124-00006	13 JUL 67	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	53	RS-7	TRI-X	70 MM 37
VR-29-4J-151-00007	13 JUL 67	151	LONG ISLAND, NEW YORK	53	RS-7	TRI-X	70 MM 37
VR-29-4J-152-00008	13 JUL 67	152	BARNEGAT BAY, NEW JERSEY	53	RS-7	TRI-X	70 MM 37
VR-29-6J-153-00009	13 JUL 67	153	ANNAPOLIS, MARYLAND	53	RS-7	TRI-X	70 MM 37
VR-29-8J-046-00010	14 JUL 67	046	ASHEVILLE, NORTH CAROLINA	53	RS-7	TRI-X	70 MM 37
VR-29-7H-992-00011	14 JUL 67	992	PORT ARTHUR-FIREANT	53	RS-7	TRI-X	70 MM 37
VR-29-2J-019-C0012	6-9 SEP 67	019	SONORA PASS, CALIFORNIA	56	RS-7	TRI-X 5498	70 MM 75
VR-29-2J-130-00013	6-9 SEP 67	130	SOUTHERN CALIFORNIA	56	RS-7	TRI-X 5498	70 MM 75
VR-29-2J-157-0C014	6-9 SEP 67	157	BORRERO SPRINGS, CALIFORNIA	56	RS-7	TRI-X 5498	70 MM 75
VR-29-2J-003-00015	6-9 SEP 67	003	MONO CRATERS, CALIFORNIA	56	RS-7	TRI-X 5498	70 MM 75



IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-29-GJ-128-00016	30 AUG 67	128	MISSISSIPPI DELTA, LOUISIANA	58 RS-7	5498-RAR FILM	70 MM 65
VR-29-W-032-00017	15 JAN 68	032	WESLACO, TEXAS	64 RS-7	5498	70 MM 15
VR-29-GJ-046-00018	16 JAN 68	046	ASHEVILLE, NORTH CAROLINA	65 RS-7	5498	70 MM 13
VR-29-GJ-150-00019	17 JAN 68	150	PAMLICO SOUND, NORTH CAROLINA	65 RS-7	5498	70 MM 8
VR-29-GJ-142-00020	18 JAN 68	142	DELAWARE ESTUARY, PA./N.J.	65 RS-7	5498	70 MM 2
VR-29-GJ-124-00021	17-19 JAN 68	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	65 RS-7	5498	70 MM 55
VR-29-GJ-150-00022	17-19 JAN 68	150	PAMLICO SOUND, NORTH CAROLINA	65 RS-7	5498	70 MM 55
VR-29-L-166-00023	3-9 APR 68	166	ICELANDU	70 RS-7	5498	70 MM 312
VR-29-EJ-003-00024	27-28 AUG 68	003	MONO CRATERS, CALIFORNIA	78 RS-7	5498 RAR	70 MM 33
VR-29-EJ-019-00025	27-28 AUG 68	019	SONORA PASS, CALIFORNIA	78 RS-7	5498 RAR	70 MM 34
VR-29-GJ-056-00026	28 AUG 68	056	MT. LASSEN, CALIFORNIA	78 RS-7	5498 RAR	70 MM 9
VR-29-JK-040-00027	29 AUG 68	040	CASCADE MOUNTAINS, WASHINGTON	78 RS-7	5498 RAR	70 MM 40
VR-29-JK-156-00028	30 AUG 68	156	WIND RIVER, WASHINGTON	78 RS-7	5498-RAR	70 MM 35
VR-29-GH-173-00029	10 SEP 68	173	GULF LOOP	79 RS-7	RAR-5498	70 MM 90
VR-29-GJ-168-00030	13 SEP 68	168	PATUXENT RIVER, MARYLAND	79 RS-7	RAR-5498	70 MM 28
VR-29-GJ-174-00031	13 SEP 68	174	WALLOPS ISLAND, VIRGINIA	79 RS-7	RAR-5498	70 MM 33
VR-29-GH-155-00032	13 SEP 68	155	GULF COAST FISHERIES	79 RS-7	RAR-5498	70 MM 6
VR-29-GH-164-00033	13 SEP 68	164	BOCA RATON/BELLE GLADE, FLORIDA	79 RS-7	RAR-5498	70 MM 26
VR-30-EJ-019-00001	6 SEP 67	019	SONORA PASS, CALIFORNIA	56 BORESIGHT	CROVAR 1368	35 MM 500
VR-30-L-166-00002	6-14 MAR 69	166	ICELAND - SEA STATE	88 BORESIGHT	2402	35 MM 800
VR-31-GJ-167-00001	7 MAY 68	167	LAKE MICHIGAN	72 HASSELBLAD	SPEC. 1N	70MM 15
VR-31-GJ-167-00002	7 MAY 68	167	LAKE MICHIGAN	72 HASSELBLAD	8443	70MM 15

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-31-EJ-167-00003	7 JUL 68	167	LAKE MICHIGAN	72	HASSELBLAD PLUS X 70MM	30
VR-31-EH-032-00004	8 JUL 68	032	WESLACO, TEXAS	75	HASSELBLAD 5424 70 MM	15
VR-31-EH-032-00005	8 JUL 68	032	WESLACO, TEXAS	75	HASSELBLAD PLUS-X 70 MM	45
VR-31-EK-156-00006	30 AUG 68	156	WIND RIVER, WASHINGTON	78	HASSELBLAD 2401 70 MM	45
VR-31-EK-156-00007	30 AUG 68	156	WIND RIVER, WASHINGTON	78	HASSELBLAD 5424 70 MM	30
VR-31-EJ-996-00008	14 OCT 68	996	DALLAS/FT. WORTH, TEXAS	981	HASSELBLAD 50-121 70 MM	10
VR-31-EJ-995-00009	14 OCT 68	995	ANSON/SNYDER, TEXAS	981	HASSELBLAD 50-121 70 MM	20
VR-31-EJ-030-00010	15-18 OCT 68	030	TUCSON, ARIZONA	981	HASSELBLAD 50-121 70 MM	55
VR-31-EJ-994-00011	16-20 OCT 68	994	EL PASO, TEXAS	981	HASSELBLAD 50-121 70 MM	48
VR-31-EJ-181-00012	19 OCT 68	181	COLORADO RIVER DELTA	981	HASSELBLAD 50-121 70 MM	24
VR-31-EH-175-00013	23 OCT 68	175	HOUSTON, TEXAS, AREA	981	HASSELBLAD 50-121 70 MM	27
VR-31-EH-175-00014	23 OCT 68	175	HOUSTON, TEXAS, AREA	981	HASSELBLAD 2402 70 MM	58
VR-31-EH-175-00015	23 OCT 68	175	HOUSTON, TEXAS, AREA	981	HASSELBLAD 8443 70 MM	30
VR-31-EJ-996-00016	14 OCT 68	996	DALLAS/FT. WORTH, TEXAS	981	HASSELBLAD 3400 70 MM	40
VR-31-EJ-995-00017	14 OCT 68	995	ANSON/SNYDER, TEXAS	981	HASSELBLAD 3400 70 MM	20
VR-31-EJ-030-00018	15-16 OCT 68	030	TUCSON, ARIZONA	981	HASSELBLAD 3400 70 MM	160
VR-31-E 994-00019	16-20 OCT 68	994	EL PASO, TEXAS	981	HASSELBLAD 3400 70 MM	135
VR-31-EJ-181-00020	19 OCT 68	181	COLORADO RIVER DELTA	981	HASSELBLAD 3400 70 MM	60
VR-31-EH-175-00021	23 OCT 68	175	HOUSTON, TEXAS, AREA	981	HASSELBLAD 3400 70 MM	60
VR-31-EJ-030-00022	15-18 OCT 68	030	TUCSON, ARIZONA	981	HASSELBLAD 2448 70 MM	75
VR-31-EJ-994-00023	16-20 OCT 68	994	EL PASO, TEXAS	981	HASSELBLAD 2448 70 MM	45
VR-31-EJ-181-00024	19 OCT 68	181	COLORADO RIVER DELTA	981	HASSELBLAD 2448 70 MM	30

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT	CONF:GURATION	
NR-31-5H-175-00025	23 OCT 68	175 HOUS.JN,	TEXAS, AREA	981	HASSELBLAD	2448	70 MM 30



AREAS IMAGED BY WESTINGHOUSE  
AN/APQ-97(XE-1) MAPPING RADAR DURING  
NASA PROGRAM (FLIGHTS \*122 THROUGH \*130)

**JULY, 1966 - AUGUST, 1966**

SEPTEMBER 15, 1960

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-33-GJ-018-00001	26 JUL 65	018	HAGERSTOWN, MARYLAND/PA./VA.	79W APQ-97	RADAR 9-1/2 IN. 20
VR-33-GJ-124-00002	26 JUL 65	124	DELMARVA PENINSULA, DELAWARE/ MARYLAND/VIRGINIA	79W APQ-97	RA 9-1/2 IN. 20
VR-33-GJ-000-00003	20 AUG 65	000	PHILADELPHIA AREA	80W APQ-97	RA744 9-1/2 IN. 25
VR-33-GJ-018-00004	7 SEP 65	018	HAGERSTOWN, MARYLAND/PA./VA.	81W APQ-97	RADAR 9-1/2 IN. 10
VR-33-ZJ-085-00005	14 SEP 65	085	LAWRENCE, KANSAS	81W APQ-97	RADAR 9-1/2 IN. 10
VR-33-GJ-018-00006	14 SEP 65	018	HAGERSTOWN, MARYLAND/PA./VA.	82W APQ-97	RADAR 9-1/2 IN. 35
VR-33-GJ-000-00007	14 SEP 65	000	CENTRAL OHIO, INDIANA, ILLINOIS	82W APQ-97	RADAR 9-1/2 IN. 35
VR-33-ZJ-076-00008	15 SEP 65	076	GARDEN CITY, KANSAS	83W APQ-97	RADAR 9-1/2 IN. 32
VR-33-GJ-034-00009	15 SEP 65	034	OUACHITA MOUNTAINS, ARKANSAS/OKLA.	83W APQ-97	RADAR 9-1/2 IN. 32
VR-33-ZJ-129-00010	15 SEP 65	129	ARKANSAS BASIN	83W APQ-97	RADAR 9-1/2 IN. 32
VR-33-GJ-046-00011	15 SEP 65	046	ASHEVILLE, NORTH CAROLINA	84W APQ-97	RADAR 9-1/2 IN. 25
VR-33-GJ-078-00012	15 SEP 65	078	CLEVELAND COUNTY, NORTH CAROLINA	84W APQ-97	RADAR 9-1/2 IN. 25
VR-33-GJ-045-00013	15 SEP 65	045	ORANGE, VIRGINIA	84W APQ-97	RADAR 9-1/2 IN. 25
VR-33-GJ-018-00014	5 OCT 65	018	HAGERSTOWN, MARYLAND/PA./VA.	85W APQ-97	RADAR 9-1/2 IN. 15
VR-33-GJ-000-00015	7 OCT 65	000	WEST PENNSYLVANIA-CENTRAL OHIO/IND.	86W APQ-97	RADAR 9-1/2 IN. 40
VR-33-GJ-044-00016	10 OCT 65	044	PURDUE, INDIANA	87W APQ-97	RADAR 9-1/2 IN. 30
VR-33-GJ-043-00017	10 OCT 65	043	CHICAGO, ILLINOIS	87W APQ-97	RADAR 9-1/2 IN. 30
VR-33-GK-126-00018	10 OCT 65	126	MARGUERITE/REPUBLIC TROUGHS, MICH.	87W APQ-97	RADAR 9-1/2 IN. 30
VR-33-ZK-998-00019	10 OCT 65	000	MINNEAPOLIS-OCCEV	88W APQ-97	RADAR 9-1/2 IN. 32
VR-33-EJ-011-00020	14 OCT 65	011	YELLOWSTONE NATIONAL PARK, WYOMING/ MONTANA/IDAHO	89W APQ-97	RADAR 9-1/2 IN. 32
VR-33-EJ-006-00021	18 OCT 65	006	SALT LAKE, UTAH	90W APQ-97	RADAR 9-1/2 IN. 15

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-33-EJ-005-00022	19 OCT 65	005	EUREKA, UTAH	90W APQ-97	RADAR	9-1/2 IN. 15
VR-33-EJ-006-00023	19 OCT 65	006	SALT LAKE, UTAH	90W APQ-97	RADAR	9-1/2 IN. 15
VR-33-EJ-009-00024	19 OCT 65	009	SAN FRANCISCO DISTRICT, UTAH	91W APQ-97	RADAR	9-1/2 IN. 30
VR-33-EJ-096-00025	19 OCT 65	096	DIXIE/FISH LAKE NATIONAL FOREST, UTAH	91W APQ-97	RADAR	9-1/2 IN. 30
VR-33-EJ-116-00026	19 OCT 65	116	GREAT SALT LAKE, UTAH	91W APQ-97	RADAR	9-1/2 IN. 30
VR-33-EJ-036-00027	20 OCT 65	036	SPANISH PEAKS, COLORADO	92W APQ-97	RADAR	9-1/2 IN. 45
VR-33-EJ-037-00028	20 OCT 65	037	OURAY, COLORADO	92W APQ-97	RADAR	9-1/2 IN. 45
VR-33-EJ-038-00029	20 OCT 65	038	GREAT SAGE PLAIN, UTAH/COLORADO	92W APQ-97	RADAR	9-1/2 IN. 45
VR-33-EJ-111-00030	20 OCT 65	111	WET MOUNTAIN, COLORADO	93W APQ-97	RADAR	9-1/2 IN. 20
VR-33-EJ-053-00031	20 OCT 65	053	SPANISH PEAKS, COLORADO/CEDAR CITY, UTAH	93W APQ-97	RADAR	9-1/2 IN. 20
VR-33-EJ-001-00032	20 OCT 65	001	CEDAR CITY, UTAH	93W APQ-97	RADAR	9-1/2 IN. 20
VR-33-EJ-009-00033	20 OCT 65	009	SAN FRANCISCO DISTRICT, UTAH	93W APQ-97	RADAR	9-1/2 IN. 20
VR-33-EJ-011-00034	21 OCT 65	011	YELLOWSTONE NATIONAL PARK, WYOMING/MONTANA/IDAHO	94W APQ-97	RADAR	9-1/2 IN. 40
VR-33-EJ-054-00035	22 OCT 65	054	SMOKE CREEK DESERT/HEBER, UTAH	94W APQ-97	RADAR	9-1/2 IN. 40
VR-33-EJ-021-00036	22 OCT 65	021	BATTLE MOUNTAIN, NEVADA	94W APQ-97	RADAR	9-1/2 IN. 40
VR-33-EJ-073-00037	22 OCT 65	073	LYNN DISTRICT, NEVADA	95W APQ-97	RADAR	9-1/2 IN. 33
VR-33-EJ-055-00038	22 OCT 65	055	HUMBOLT BASIN, NEVADA	95W APQ-97	RADAR	9-1/2 IN. 33
VR-33-EJ-059-00039	22 OCT 65	059	TOBIA RANGE, NEVADA	95W APQ-97	RADAR	9-1/2 IN. 33
VR-33-EJ-060-00040	22 OCT 65	060	DIXIE VALLEY, NEVADA	95W APQ-97	RADAR	9-1/2 IN. 33
VR-33-EJ-008-00041	25 OCT 65	008	SOUTH OREGON STRIP, OREGON	96W APQ-97	RADAR	9-1/2 IN. 35
VR-33-EJ-082-00042	25 OCT 65	082	ALVORD VALLEY, OREGON	96W APQ-97	RADAR	9-1/2 IN. 35

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-33-3J-007-00043	25 OCT 65	007	COAST RANGE, OREGON/WASHINGTON	96W APQ-97	RADAR 9-1/2 IN. 35
VR-33-3K-067-00044	26 OCT 65	067	MT. ST. HELENS, WASHINGTON	97W APQ-97	RADAR 9-1/2 IN. 35
VR-33-3K-069-00045	26 OCT 65	069	MT. BAKER, WASHINGTON	97W APQ-97	RADAR 9-1/2 IN. 35
VR-33-3K-040-00046	26 OCT 65	040	CASCADE MOUTAINS, WASHINGTON	97W APQ-97	RADAR 9-1/2 IN. 20
VR-33-3K-068-00047	26 OCT 65	068	MT. RAINIER, WASHINGTON	97W APQ-97	RADAR 9-1/2 IN. 20
VR-33-3K-066-00048	26 OCT 65	066	MT. ADAMS, WASHINGTON	97W APQ-97	RADAR 9-1/2 IN. 20
VR-33-3J-007-00049	27 OCT 65	007	COAST RANGE, OREGON/WASHINGTON	98W APQ-97	RADAR 9-1/2 IN. 42
VR-33-5J-008-00050	27 OCT 65	008	SOUTH OREGON STRIP, OREGON	98W APQ-97	RADAR 9-1/2 IN. 42
VR-33-5J-055-00051	27 OCT 65	055	HUMBOLT BASIN, NEVADA	98W APQ-97	RADAR 9-1/2 IN. 42
VR-33-5J-010-00052	29 OCT 65	010	CARSON CITY, NEVADA	99W APQ-97	RADAR 9-1/2 IN. 37
VR-33-3J-020-00053	29 OCT 65	020	BUCKS LAKE, CALIFORNIA	99W APQ-97	RADAR 9-1/2 IN. 37
VR-33-3J-050-00054	29 OCT 65	050	DONNER PASS, CALIFORNIA	99W APQ-97	RADAR 9-1/2 IN. 37
VR-33-5J-019-00055	29 OCT 65	019	SONORA PASS, CALIFORNIA	99W APQ-97	RADAR 9-1/2 IN. 37
VR-33-5J-003-00056	29 OCT 65	003	MONO CRATERS, CALIFORNIA	99W APQ-97	RADAR 9-1/2 IN. 37
VR-33-5J-010-00057	1 NOV 65	010	CARSON CITY, NEVADA	100W APQ-97	RADAR 9-1/2 IN. 45
VR-33-5J-022-00058	1 NOV 65	022	TONOPAH, NEVADA	100W APQ-97	RADAR 9-1/2 IN. 45
VR-33-3J-023-00059	1 NOV 65	023	INYO NATIONAL FOREST, CALIFORNIA	100W APQ-97	RADAR 9-1/2 IN. 45
VR-33-5J-074-00060	1 NOV 65	074	BENTON, CALIFORNIA	100W APQ-97	RADAR 9-1/2 IN. 45
VR-33-5J-003-00061	1 NOV 65	003	MONO CRATERS, CALIFORNIA	100W APQ-97	RADAR 9-1/2 IN. 45
VR-33-5J-094-00062	1 NOV 65	094	SMOKE CREEK DESERT/NEBER, UTAH	100W APQ-97	RADAR 9-1/2 IN. 45
VR-33-5J-002-00063	2 NOV 65	002	PIGSM CRATER, CALIFORNIA	101W APQ-97	RADAR 9-1/2 IN. 42
VR-33-3J-023-00064	2 NOV 65	023	INYO NATIONAL FOREST, CALIFORNIA	101W APQ-97	RADAR 9-1/2 IN. 42



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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-33-ZJ-024-00065	2 NOV 65	024	SAN ANDREAS FAULT, CALIFORNIA	101W APQ-97	RADAR	9-1/2 IN. 42
VR-33-ZJ-025-00066	2 NOV 65	025	DEVILS PLAYGROUND, CALIFORNIA	101W APQ-97	RADAR	9-1/2 IN. 42
VR-33-ZJ-000-00067	2 NOV 65	000	SAN FRANCISCO PENINSULA	101W APQ-97	RADAR	9-1/2 IN. 42
VR-33-ZJ-026-00068	4 NOV 65	026	SCRIPPS BEACH, CALIFORNIA	102W APQ-97	RADAR	9-1/2 IN. 45
VR-33-ZJ-027-00069	4 NOV 65	027	SALTCH SEA, CALIFORNIA	102W APQ-97	RADAR	9-1/2 IN. 45
VR-33-ZJ-002-00070	4 NOV 65	002	PISCAN CRATER, CALIFORNIA	102W APQ-97	RADAR	9-1/2 IN. 45
VR-33-ZJ-028-00071	5 NOV 65	028	WINSLOW, ARIZONA	103W APQ-97	RADAR	9-1/2 IN. 37
VR-33-ZJ-101-00072	5 NOV 65	101	SAN FRANCISCO VOLCANIC FIELDS, ARIZONA	103W APQ-97	RADAR	9-1/2 IN. 37
VR-33-ZJ-031-00073	5 NOV 65	031	MESQUITE SEDIMENTARY, ARIZONA	103W APQ-97	RADAR	9-1/2 IN. 37
VR-33-ZJ-071-00074	5 NOV 65	071	HOPI BUTTES, ARIZONA	103W APQ-97	RADAR	9-1/2 IN. 37
VR-33-ZJ-029-00075	8 NOV 65	029	PHOENIX, ARIZONA	104W APQ-97	RADAR	9-1/2 IN. 30
VR-33-ZJ-030-00076	8 NOV 65	030	TUCSON, ARIZONA	104W APQ-97	RADAR	9-1/2 IN. 30
VR-33-ZJ-015-00077	8 NOV 65	015	TWIN BUTTES, ARIZONA	104W APQ-97	RADAR	9-1/2 IN. 30
VR-33-ZJ-014-00078	8 NOV 65	014	LITTLE DRAGON MOUNTAINS, ARIZONA	104W APQ-97	RADAR	9-1/2 IN. 30
VR-33-ZJ-031-00079	8 NOV 65	031	WILCOX DRY LAKE, ARIZONA	104W APQ-97	RADAR	9-1/2 IN. 30
VR-33-ZJ-013-00080	8 NOV 65	013	SILVER CITY, NEW MEXICO	104W APQ-97	RADAR	9-1/2 IN. 30
VR-33-PH-016-00081	9 NOV 65	016	SOLITARIO, TEXAS	105W APQ-97	RADAR	9-1/2 IN. 35
VR-33-PH-033-00082	9 NOV 65	033	GUADELUPE RIVER, TEXAS	105W APQ-97	RADAR	9-1/2 IN. 35
VR-33-ZJ-045-00083	10 NOV 65	045	ORANGE, VIRGINIA	106W APQ-97	RADAR	9-1/2 IN. 30
VR-33-ZJ-046-00084	10 NOV 65	046	ASHEVILLE, NORTH CAROLINA	106W APQ-97	RADAR	9-1/2 IN. 30
VR-33-ZJ-125-00085	10 NOV 65	125	ROXBORO RESERVOIR, NORTH CAROLINA	106W APQ-97	RADAR	9-1/2 IN. 30
VR-33-ZJ-000-00086	10 NOV 65	000	MISSISSIPPI RIVER	106W APQ-97	RADAR	9-1/2 IN. 30

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-33-GJ-000-00087	10 NOV 65	000	MISSISSIPPI/ALABAMA/GEORGIA	106W APQ-97	RADAR	9-1/2 IN. 30
VR-33-GJ-000-00088	8 JUL 66	000	HONEY BROOK, PENNSYLVANIA	122W APQ-97	RADAR	9-1/2 IN. 20
VR-33-GJ-000-00089	14 JUL 66	000	CHESAPEAKE BAY	123W APQ-97	RADAR	9-1/2 IN. 40
VR-33-GJ-000-00090	14 JUL 66	000	ATLANTIC COAST LINE	123W APQ-97	RADAR	9-1/2 IN. 40
VR-33-GJ-000-00091	14 JUL 66	000	QUANTICO, VIRGINIA	123W APQ-97	RADAR	9-1/2 IN. 40
VR-33-GJ-000-00092	14 JUL 66	000	WASHINGTON, D.C.	123W APQ-97	RADAR	9-1/2 IN. 40
VR-33-GJ-040-00093	19 JUL 66	040	CASCADE MOUNTAINS, WASHINGTON	124W APQ-97	RADAR	9-1/2 IN. 15
VR-33-GJ-000-00094	22 JUL 66	000	WILLIAMSPORT AREA	125W APQ-97	RADAR	9-1/2 IN. 55
VR-33-GJ-000-00095	22 JUL 66	000	ESSEX ROAD	125W APQ-97	RADAR	9-1/2 IN. 55
VR-33-GJ-000-00096	22 JUL 66	000	MASSACHUSETTS AREA	125W APQ-97	RADAR	9-1/2 IN. 55
VR-33-GJ-000-00097	22 JUL 66	000	BALTIMORE, MARYLAND	125W APQ-97	RADAR	9-1/2 IN. 55
VR-33-GJ-043-00098	26 JUL 66	043	CHICAGO, ILLINOIS	126W APQ-97	RADAR	9-1/2 IN. 42
VR-33-GJ-044-00099	26 JUL 66	044	PURDIE, INDIANA	126W APQ-97	RADAR	9-1/2 IN. 42
VR-33-GJ-000-00100	26 JUL 66	000	KANSAS CITY	126W APQ-97	RADAR	9-1/2 IN. 42
VR-33-GJ-000-00101	26 JUL 66	000	SHELBYVILLE, INDIANA	126W APQ-97	RADAR	9-1/2 IN. 42
VR-33-GJ-076-00102	27 JUL 66	076	GARDEN CITY, KANSAS	127W APQ-97	RADAR	9-1/2 IN. 30
VR-33-GJ-034-00103	27 JUL 66	034	OUACHITA MOUNTAINS, ARKANSAS/OKLA.	127W APQ-97	RADAR	9-1/2 IN. 30
VR-33-GJ-000-00104	27 JUL 66	000	LITTLE ROCK TO MEMPHIS	127W APQ-97	RADAR	9-1/2 IN. 30
VR-33-GJ-000-00105	28 JUL 66	000	CROOKED-CREEK	128W APQ-97	RADAR	9-1/2 IN. 40
VR-33-GJ-000-00106	28 JUL 66	000	LITTLE ROCK, ARKANSAS	128W APQ-97	RADAR	9-1/2 IN. 40
VR-33-GJ-000-00107	28 JUL 66	000	MEMPHIS, TENNESSEE	128W APQ-97	RADAR	9-1/2 IN. 40
VR-33-GJ-000-00108	28 JUL 66	000	BOSTON MOUNTAINS	128W APQ-97	RADAR	9-1/2 IN. 40

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ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-33-3J-000-00109	29 JUL 66	000	LOUISVILLE, KENTUCKY	129W APQ-97	RADAR	9-1/2 IN. 30
VR-33-3J-000-00110	29 JUL 66	000	LEXINGTON, KENTUCKY	129W APQ-97	RADAR	9-1/2 IN. 30
VR-33-3J-000-00111	29 JUL 66	000	DYERSBURG TO STEADVILLE, ILLINOIS	129W APQ-97	RADAR	9-1/2 IN. 30
VR-33-3J-000-00112	29 JUL 66	000	LEWISBURG, VIRGINIA	129W APQ-97	RADAR	9-1/2 IN. 30
VR-33-4J-000-00113	11 AUG 66	000	GULF STREAM	130W APQ-97	RADAR	9-1/2 IN. 40
VR-33-3J-000-00114	11 AUG 66	000	CAPE MATIAS	130W APQ-97	RADAR	9-1/2 IN. 40

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-34-EJ-088-000001	8 JUL 66	088	MISSISSIPPI VALLEY, MISSOURI/ TENN.	3/S RECONOFAX IV	TRI-X	70 MM 25
VR-34-EJ-000-000002	8 JUL 66	000	EVANSTON, ILLIANA TO ST. LOUIS, MO.	3/S RECONOFAX IV	TRI-X	70 MM 25
VR-34-EJ-129-000003	30 JUL 66	129	ARKANSAS BASIN	4/S RECONOFAX IV	TRI-X	70 MM 30
VR-34-EJ-000-000004	30 JUL 66	000	AMARILLO, TEXAS	4/S RECONOFAX IV	TRI-X	70 MM 30
VR-34-EJ-000-000005	30 JUL 66	000	NEW MEXICO AREA	5/S RECONOFAX IV	TRI-X	70 MM 30
VR-34-EJ-013-000006	31 JUL 66	013	SILVER CITY, NEW MEXICO	6/S RECONOFAX IV	TRI-X	70 MM 75
VR-34-EJ-015-000007	31 JUL 66	015	TWIN BUTTES, ARIZONA	6/S RECONOFAX IV	TRI-X	70 MM 75
VR-34-EJ-000-000008	31 JUL 66	000	ALBUQUERQUE TO PHOENIX	6/S RECONOFAX IV	TRI-X	70 MM 75
VR-34-EJ-028-000009	1 AUG 66	028	WINSLOW, ARIZONA	7/S RECONOFAX IV	TRI-X	70 MM 15
VR-34-EJ-101-000010	1 AUG 66	101	SAN FRANCISCO VOLCANIC FIELDS, ARIZ	7/S RECONOFAX IV	TRI-X	70 MM 15
VR-34-EJ-000-000011	1 AUG 66	000	METECR CRATER TO PHOENIX	7/S RECONOFAX IV	TRI-X	70 MM 15
VR-34-EJ-028-000012	2 AUG 66	028	WINSLOW, ARIZONA	8/S RECONOFAX IV	TRI-X	70 MM 50
VR-34-EJ-071-000013	2 AUG 66	071	HOP1 BUTTES, ARIZONA	8/S RECONOFAX IV	TRI-X	70 MM 50
VR-34-EJ-101-000014	2 AUG 66	101	SAN FRANCISCO VOLCANIC FIELDS, ARIZ	8/S RECONOFAX IV	TRI-X	70 MM 50
VR-34-EJ-000-000015	2 AUG 66	000	PHOENIX TO WINSLOW	8/S RECONOFAX IV	TRI-X	70 MM 50
VR-34-EJ-071-000016	3 AUG 66	071	HOP1 BUTTES, ARIZONA	9/S RECONOFAX IV	TRI-X	70 MM 30
VR-34-EJ-000-000017	3 AUG 66	000	PHOENIX TO WINSLOW	9/S RECONOFAX IV	TRI-X	70 MM 30
VR-34-EJ-071-000018	4 AUG 66	071	HOP1 BUTTES, ARIZONA	10/S RECONOFAX IV	TRI-X	70 MM 90
VR-34-EJ-000-000019	4 AUG 66	000	PAXTON SPRINGS	10/S RECONOFAX IV	TRI-X	70 MM 90
VR-34-EJ-000-000020	4 AUG 66	000	REDONDO PEAK	10/S RECONOFAX IV	TRI-X	70 MM 90
VR-34-EJ-000-000021	4 AUG 66	000	SAN JUAN MOUNTAINS	10/S RECONOFAX IV	TRI-X	70 MM 90
VR-34-EJ-000-000022	5 AUG 66	000	MONTROSE TO SILVERTON	11/S RECONOFAX IV	TRI-X	70 MM 25

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-34-EJ-000-00023	5 AUG 66	000	MONTROSE TO DISAPPOINTMENT VALLEY	11/S	RECONOFAX IV	70 MM 25
VR-34-EJ-000-00024	5 AUG 66	000	PARACOX	11/S	RECONOFAX IV	70 MM 25
VR-34-EJ-038-00025	6 AUG 66	038	GREAT SAGE PLAIN, UTAH/COLORADO	12/S	RECONOFAX IV	70 MM 35
VR-34-EJ-000-00026	6 AUG 66	000	UTAH AND RECON. LINES	12/S	RECONOFAX IV	70 MM 35
VR-34-EJ-000-00027	6 AUG 66	000	COLORADO TO CEDAR CITY, UTAH	12/S	RECONOFAX IV	70 MM 35
VR-34-EJ-001-00028	7 AUG 66	001	CEDAR CITY, UTAH	13/S	RECONOFAX IV	70 MM 20
VR-34-EJ-009-00029	7 AUG 66	009	SAN FRANCISCO DISTRICT, UTAH	13/S	RECONOFAX IV	70 MM 20
VR-34-EJ-005-00030	8 AUG 66	005	EUREKA (TINTIC DISTRICT), UTAH	15/S	RECONOFAX IV	70 MM 40
VR-34-EJ-096-00031	8 AUG 66	096	DIXIE/FISH LAKE NATIONAL FOREST, UTAH	15/S	RECONOFAX IV	70 MM 40
VR-34-EJ-009-00032	8 AUG 66	009	SAN FRANCISCO DISTRICT, UTAH	15/S	RECONOFAX IV	70 MM 40
VR-34-EJ-001-00033	9 AUG 66	001	CEDAR CITY, UTAH	16/S	RECONOFAX IV	70 MM 25
VR-34-EJ-096-00034	9 AUG 66	096	DIXIE/FISH LAKE NATIONAL FOREST, UTAH	16/S	RECONOFAX IV	70 MM 25
VR-34-EJ-022-00035	10 AUG 66	022	TONOPAH, NEVADA	17/S	RECONOFAX IV	70 MM 40
VR-34-EJ-052-00036	10 AUG 66	052	NEVADA AEC	17/S	RECONOFAX IV	70 MM 40
VR-34-EJ-075-00037	10 AUG 66	075	GOLDFIELD, NEVADA	17/S	RECONOFAX IV	70 MM 40
VR-34-EJ-010-00038	11 AUG 66	010	CARSON CITY, NEVADA	18/S	RECONOFAX IV	70 MM 60
VR-34-EJ-021-00039	11 AUG 66	021	BATTLE MOUNTAIN, NEVADA	18/S	RECONOFAX IV	70 MM 60
VR-34-EJ-054-00040	11 AUG 66	054	SMOKE CREEK DESERT/HEBER, UTAH	18/S	RECONOFAX IV	70 MM 60
VR-34-EJ-073-00041	11 AUG 66	073	LYNN DISTRICT NEVADA	18/S	RECONOFAX IV	70 MM 60
VR-34-EJ-000-00042	11 AUG 66	000	N.W. OF TONOPAH, NEVADA	18/S	RECONOFAX IV	70 MM 60
VR-34-EJ-011-00043	13 AUG 66	011	YELLOWSTONE NATIONAL PARK, WYO/MONT /IDAHO	19/S	RECONOFAX IV	70 MM 40

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-34-EJ-011-00044	14 AUG 66	011	YELLOWSTONE NATIONAL PARK, WYO/MONT /IDAHO	20/S	RECONOFAX IV TRI-X	70 MM 40
VR-34-EJ-011-00045	14 AUG 66	011	YELLOWSTONE NATIONAL PARK, WYO/MONT /IDAHO	21/S	RECONOFAX IV TRI-X	70 MM 40
VR-34-EJ-011-00046	15 AUG 66	011	YELLOWSTONE NATIONAL PARK, WYO/MONT /IDAHO	22/S	RECONOFAX IV TRI-X	70 MM 25
VR-34-EK-009-00047	16 AUG 66	009	BLACKBIRD DISTRICT, IDAHO	23/S	RECONOFAX IV TRI-X	70 MM 40
VR-34-EK-009-00048	16 AUG 66	090	ALBERTON, MONTANA	23/S	RECONOFAX IV TRI-X	70 MM 40
VR-34-EK-110-00049	16 AUG 66	110	CLARK FORK, IDAHO	23/S	RECONOFAX IV TRI-X	70 MM 40
VR-34-CJ-007-00050	18 AUG 66	007	COAST RANGE, OREGON/WASHINGTON	25/S	RECONOFAX IV TRI-X	70 MM 75
VR-34-EJ-008-00051	18 AUG 66	008	SOUTH OREGON STRIP, OREGON	25/S	RECONOFAX IV TRI-X	70 MM 75
VR-34-CJ-012-00052	18 AUG 66	012	CRATER LAKE, OREGON	25/S	RECONOFAX IV TRI-X	70 MM 75
VR-34-CJ-007-00053	19 AUG 66	007	COAST RANGE, OREGON/WASHINGTON	26/S	RECONOFAX IV TRI-X	70 MM 35
VR-34-EJ-008-00054	19 AUG 66	008	SOUTH OREGON STRIP, OREGON	26/S	RECONOFAX IV TRI-X	70 MM 35
VR-34-CJ-012-00055	19 AUG 66	012	CRATER LAKE, OREGON	26/S	RECONOFAX IV TRI-X	70 MM 35

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
NR-35-JJ-048-00001	JUL 69	048	SAN PABLO RESERVOIR	100	ZEISS, 15G, COLOR IR S0117, 12 IN.
	ROLL 3	LINE 7	EXPOSURE NUMBERS	SCALE	REMARKS
	3	8	130 - 133	60,000	
	3	9	164 - 186	60,000	
NR-35-JJ-019-00002	JUL 69	019	SONORA PASS, CALIFORNIA	100	ZEISS, 15G, COLOR IR S0117, 12 IN.
	ROLL 3	LINE 4	EXPOSURE NUMBERS	ALTITUDE	REMARKS
			065 - 067	60,000	
				ALTITUDE	
NR-35-JJ-003-00003	JUL 69	003	MONO LAKE	100	ZEISS, 15G, COLOR IR S0117, 12 IN.
	ROLL 3	LINE 1	EXPOSURE NUMBERS	SCALE	REMARKS
			025 - 027	60,000	
				ALTITUDE	
NR-35-JJ-191-00004	JUL 69	193	ELDORADO FOREST	100	ZEISS, 15G, COLOR IR S0117, 12 IN.
	ROLL 3	LINE 7	EXPOSURE NUMBERS	SCALE	REMARKS
	3	8	149 - 156	60,000	
	3	9	159 - 166	60,000	
NR-35-JJ-020-00005	JUL 69	020	BUCKS LAKE	100	ZEISS, 15G, COLOR IR S0117, 12 IN.
	ROLL 5	LINE 8	EXPOSURE NUMBERS	SCALE	REMARKS
	5	9	180 - 187	60,000	
			200 - 206	60,000	
NR-35-JJ-056-00006	JUL 69	056	LISSEN PEAK	100	ZEISS, 15G, COLOR IR S0117, 12 IN.
	ROLL 5	LINE 5	EXPOSURE NUMBERS	SCALE	REMARKS
			095 - 099	60,000	
				ALTITUDE	
NR-35-JJ-169-00007	JUL 69	169	KLAMATH FALLS	100	ZEISS, 15G, COLOR IR S0117, 12 IN.
	ROLL 5	LINE 1	EXPOSURE NUMBERS	SCALE	REMARKS
	5	2	024 - 012	60,000	
			013 - 024	60,000	
NR-35-JJ-135-00008	JUL 69	135	HARVEY VALLEY	100	ZEISS, 15G, COLOR IR S0117, 12 IN.
	ROLL 5	LINE 3	EXPOSURE NUMBERS	SCALE	REMARKS
	5	4	032 - 046	60,000	
			060 - 073	60,000	
NR-35-JJ-194-00009	AUG 69	194	DENVER, COLO	101	ZEISS, ZEISS 181 COLOR IR S0117, 12 IN.
	ROLL 2	LINE 1	EXPOSURE NUMBERS	SCALE	REMARKS
	2	2	005 - 007	1,120,000	
	2	3	008 - 013	1,120,000	
	2	4	014 - 016	1,120,000	
	2	5	019 - 024	1,120,000	
	2	6	025 - 029	1,120,000	
	2		030 - 034	1,120,000	
	2	6	035 - 040	1,120,000	
				ALTITUDE	
				60,000	
				60,000	

IMAGERY DATA FILE

ACQUISITION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-35-EJ-011-00010	AUG 69	011 YELLOWSTONE PARK	ALTITUDE	101	ZEISS 'B', COLOR IR SO117, 12 IN. REMARKS
	LINE	EXPOSURE NUMBERS	60,000 MSL		
	ROLL		60,000 MSL		
VR-35-EJ-011-00011	AUG 69	149 BLACK HILLS, SOUTH DAKOTA	ALTITUDE	101	ZEISS 'B', COLOR IR SO117, 12 IN. REMARKS
	LINE	EXPOSURE NUMBERS	60,000 MSL		
	ROLL		60,000 MSL		
VR-35-EJ-011-00012	AUG 69	011 YELLOWSTONE PARK	ALTITUDE	101	ZEISS 'B', COLOR IR SO117, 12 IN. REMARKS
	LINE	EXPOSURE NUMBERS	60,000 MSL		
	ROLL		60,000 MSL		
VR-35-EJ-011-00013	AUG 69	149 BLACK HILLS, SOUTH DAKOTA	ALTITUDE	101	ZEISS 'B', COLOR IR SO117, 12 IN. REMARKS
	LINE	EXPOSURE NUMBERS	60,000 MSL		
	ROLL		60,000 MSL		
VR-35-EJ-011-00014	AUG 69	195 BROOKINGS, SOUTH DAKOTA	ALTITUDE	101	ZEISS 'B', COLOR IR SO117, 12 IN. REMARKS
	LINE	EXPOSURE NUMBERS	60,000 MSL		
	ROLL		60,000 MSL		
VR-35-EJ-011-00015	AUG 69	186 CLARKS FORK, WYOMING	ALTITUDE	101	ZEISS 'B', COLOR IR SO117, 12 IN. REMARKS
	LINE	EXPOSURE NUMBERS	60,000 MSL		
	ROLL		60,000 MSL		
VR-35-EJ-011-00016	AUG 69	011 YELLOWSTONE PARK	ALTITUDE	101	ZEISS 'B', COLOR IR SO117, 12 IN. REMARKS
	LINE	EXPOSURE NUMBERS	60,000 MSL		
	ROLL		60,000 MSL		

THE AIRCRAFT WAS OFF COURSE DURING THIS LINE.



IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-35-EJ-030-00017	AUG 69	030	TUCSON/AJO, ARIZONA	101	ZEISS B, 80117, 12 IN. REMARKS
	ROLL	EXPOSURE NUMBERS	ALTITUDE		
	1	003 - C26	60,000 MSL		
	2	027 - C46	60,000 MSL		
	3	047 - C67	60,000 MSL		
	4	068 - C88	60,000 MSL		
	5	089 - 109	60,000 MSL		
VR-35-EJ-105-00018	AUG 69	105	WEST, SONORA AREA, COLORADO	101	ZEISS B, 80117, 12 IN. REMARKS
	ROLL	EXPOSURE NUMBERS	ALTITUDE		
	1	007 - C17	60,000 MSL		
	3	018 - C36	60,000 MSL		
	5	037 - C55	60,000 MSL		
	7	054 - 0715	60,000 MSL		
	9	072 - C90	60,000 MSL		
VR-35-EJ-105-00019	AUG 69	105	EAST, SONORA AREA, COLORADO	101	ZEISS B, 80117, 12 IN. REMARKS
	ROLL	EXPOSURE NUMBERS	ALTITUDE		
	11	003 - C25	60,000 MSL		
	12	024 - C45	60,000 MSL		
	13	046 - C48	60,000 MSL		
	12				
	12				
VR-35-EJ-007-00020	JUL 69	007	OREGON COAST	100	ZEISS, 150, 80117, 12 IN. REMARKS
	ROLL	EXPOSURE NUMBERS	ALTITUDE		
	1	004 - 035	60,000 MSL		
	1	036 - 068	60,000 MSL		
	1	069 - 100	60,000 MSL		
	1	101 - 104	60,000 MSL		
	1	105 - 135	60,000 MSL		
	1	136 - 167	60,000 MSL	100	ZEISS, 150, 80117, 12 IN. REMARKS
	1	168 - 197	60,000 MSL		
	1	198 - 210	60,000 MSL		
	OVER				
	1	211 - 228	60,000 MSL		
	1				
	1				

CLOUD COVER APPROXIMATELY 30 PER CENT CIRRUS.  
CLOUD COVER APPROXIMATELY 50 PER CENT CIRRUS.  
CLOUD COVER APPROXIMATELY 80 PER CENT CIRRUS AND  
CUMULUS. LINE TERMINATED EARLY BECAUSE OF CLOUD  
COVER.

MOUTH OF COLUMBIA RIVER  
NORTH TO SOUTH AVER OCEAN  
SOUTH TO NORTH AVER OCEAN  
NORTH TO SOUTH AVER OCEAN  
CAPE BLANCO, CALIF., CLEARING CAMERA OF EXCESS  
THE FLIGHT PLAN - LINES 1-6 OVER THE OREGON  
COAST HAVE BEEN REDESIGNATED AS LINES 2-7, SINCE  
THE ORIGINAL LINE 1 WAS NOT FLOWN.  
(CLEARING CAMERA). THIS IS THE TAIL OF ROLL 1  
OF 5  
MAP NOS. NK 10-2, NL 10-8, NL 10-11, NK 10-14.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-36--J-194-00001	AUG 69	194	DENVER, COLORADO	101	HASSELBLAD A, 80-3, 50246, 3 IN. REMARKS
VR-36-EJ-011-00002	AUG 69	011	YELLOWSTONE PARK	101	HASSELBLAD A, 24, 3400, 3 IN. REMARKS
VR-36--J-149-00003	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	HASSELBLAD A, 12, 50368, 3 IN. REMARKS
VR-36-EJ-011-00004	AUG 69	011	YELLOWSTONE PARK	101	HASSELBLAD A, 24, 3400, 3 IN. REMARKS
VR-36--J-149-00005	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	HASSELBLAD A, 12, COLOR 50368, 3 IN. REMARKS
VR-36--J-195-00006	AUG 69	195	BROOKINGS, SOUTH DAKOTA	101	HASSELBLAD A, 12, COLOR 50368, 3 IN. REMARKS

THE AIRCRAFT WAS OFF COURSE DURING THIS LINE.

AIRGARY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-36-EJ-186-00007 09	AUG 69	186	CLARKS FORK, WYOMING		
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE		
	8	001 - 005	60,000 MSL		
	8	006 - 010	60,000 MSL		
VR-36-EJ-011-00008 09	AUG 69	011	YELLOWSTONE PARK		
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE		
	8	016 - 027	60,000 MSL		
	8	028 - 039	60,000 MSL		
VR-36-EJ-030-00009 10	AUG 69	030	TUCSON/AJO, ARIZONA		
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE		
	11	001 - 023	60,000 MSL		
	11	024 - 041	60,000 MSL		
VR-36-EJ-185-00010 11	AUG 69	185	WEST, MONANZA AREA, COLORADO		
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE		
	7	001 - 011	60,000 MSL		
	7	012 - 032	60,000 MSL		
VR-36-EJ-185-00011 12	AUG 69	185	EAST, MONANZA AREA, COLORADO		
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE		
	9	001 - 023	60,000 MSL		
	9	024 - 046	60,000 MSL		
VR-36-EJ-193-00012 17	JUL 69	193	ELDOFAVO FOREST		
	ROLL LINE	EXPOSURE NUMBERS	ALTITUDE		
	1	13 - 27	60,000 MSL		
	1	28 - 43	60,000 MSL		

HASSELBLAD A, 24, 3400, 3 IN.  
REMARKS

HASSELBLAD A, 24, 3400, 3 IN.  
REMARKS

HASSELBLAD A, 24, 3400, 3 IN.  
REMARKS

HASSELBLAD A, 89-3, 30246, 3 IN.  
REMARKS

HASSELBLAD A, 89-3, 30246, 3 IN.  
REMARKS  
CLOUD COVER APPROXIMATELY 30 PER CENT CIRRUS.  
CLOUD COVER APPROXIMATELY 50 PER CENT CIRRUS.  
CLOUD COVER APPROXIMATELY 80 PER CENT CIRRUS AND  
CUMULUS. LINE TERMINATED EARLY BECAUSE OF CLOUD  
COVER.

HASSELBLAD A, 146, 30180, 3 IN.  
REMARKS

MAP NO. NJ 10-6.

IMAGERY DATA FILE

SESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-36-3J-007-00013	JUL 69 LINE 16 ROLL 3	020 BUCKS LAKE EXPOSURE NUMBERS 62 - 72	ALTITUDE 60,000 MSL	100 SCALE 1.360,000	HASSELBLAD A, 15G, COLOR IR S0180, 3 IN. REMARKS MAP NO. NJ 10-3.
VR-36-3J-135-00014	JUL 69 LINE 16 ROLL 3	135 HARVEY VALLEY EXPOSURE NUMBERS 22 - 40 41 - 61	ALTITUDE 60,000 MSL 60,000 MSL	100 SCALE 1.360,000 1.360,000	HASSELBLAD A, 15G, COLOR IR S0180, 3 IN. REMARKS MAP NO. NK 10-12.
VR-36-3J-189-00015	JUL 69 LINE 16 ROLL 3	189 KLAHATH FALLS EXPOSURE NUMBERS 01 - 10 11 - 21	ALTITUDE 60,000 MSL 60,000 MSL	100 SCALE 1.360,000 1.360,000	HASSELBLAD A, 15G, COLOR IR S0180, 3 IN. REMARKS MAP NO. NK 10-6.
VR-36-3J-048-00016	JUL 69 LINE 17 ROLL 1	048 SAN PABLO RESERVOIR EXPOSURE NUMBERS 01 - 12 13 - 28 29 - 44 45 - 59	ALTITUDE 60,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL	100 SCALE 1.360,000 1.360,000 1.360,000 1.360,000	HASSELBLAD A, 15G, COLOR IR S0180, 3 IN. REMARKS MAP NO. NJ 10-8.
VR-36-3J-007-00017	AUG 69 LINE 05 ROLL 1	007 OREGON COAST EXPOSURE NUMBERS 1 - 47 48 - 90	ALTITUDE 1,000 MSL 1,000 MSL	99 SCALE 1.4,000 1.4,000	HASSELBLAD A, 2448, 24V, 3 IN. REMARKS DARK DARK MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-36-3J-007-00018	AUG 69 LINE 05 ROLL 2	007 OREGON COAST EXPOSURE NUMBERS 1 - 48 49 - 84	ALTITUDE 1,000 MSL 1,000 MSL	99 SCALE 1.4,000 1.4,000	HASSELBLAD A, 2448, 24V, 3 IN. REMARKS MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-36-3J-007-00019	AUG 69 LINE 05 ROLL 3	007 OREGON COAST EXPOSURE NUMBERS 1 - 48 49 - 83	ALTITUDE 1,000 MSL 1,000 MSL	99 SCALE 1.4,000 1.4,000	HASSELBLAD A, 2448, 24V, 3 IN. REMARKS FRAMES 72 - 75 UNEXPOSED MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-36-3J-007-00020	AUG 69 LINE 05 ROLL 4	007 OREGON COAST EXPOSURE NUMBERS 1 - 17 18 - 25	ALTITUDE 1,000 MSL 1,000 MSL	99 SCALE 1.4,000 1.40,000	HASSELBLAD A, 2448, 24V, 3 IN. REMARKS DARK DARK MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-36-3J-007-00021	AUG 69 LINE 06 ROLL 4	007 OREGON COAST EXPOSURE NUMBERS 26 - 29 30 - 39 40 - 64	ALTITUDE 1,000 MSL 1,000 MSL 1,000 MSL	99 SCALE 1.40,000 1.40,000 1.40,000	HASSELBLAD A, 2448, 24V, 3 IN. REMARKS MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4

## IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-36-3J-007-00022	AUG 69	007 OREGON COAST EXPOSURE NUMBERS	ALTITUDE	99	HASSELBLAD A, 2448, 24V, 3 IN. REMARKS
	LINE		SCALE		
	21	1 - 8	1,000 MSL		DARK
	22	9 - 19	1,000 MSL		DARK
	23	20 - 29	1,000 MSL		DARK
	24	30 - 41	1,000 MSL		DARK
	25	42 - 51	1,000 MSL		DARK
	26	52 - 59	1,000 MSL		DARK
	27	60 - 74	1,000 MSL		DARK
	28	75 - 83	1,000 MSL		DARK
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-36-3J-007-00023	AUG 69	007 OREGON COAST EXPOSURE NUMBERS	ALTITUDE	99	HASSELBLAD A, 2448, 24V, 3 IN. REMARKS
	LINE		SCALE		
	31	1 - 9	1,000 MSL		
	32	10 - 16	1,000 MSL		
	33	17 - 24	1,000 MSL		
	34	25 - 31	1,000 MSL		
	35	32 - 46	1,000 MSL		
	36	47 - 61	1,000 MSL		
	38	62 - 72	1,000 MSL		
	39+40	73 - 89	1,000 MSL		
					FRAMES 32-37 ORBITING OVER COOS BAY
					NOT ON FLIGHT LOG- PROBABLY FLIGHT LINES 39 + 40.
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-36-3J-007-00024	AUG 69	007 OREGON COAST EXPOSURE NUMBERS	ALTITUDE	99	HASSELBLAD A, 2448, 24V, 3 IN. REMARKS
	LINE		SCALE		
	41	1 - 23	1,000 MSL		50 PER CENT OF FRAMES CLOUD COVER
	42	24 - 36	1,000 MSL		50 PER CENT OF FRAMES CLOUD COVER
	43	37 - 47	1,000 MSL		50 PER CENT OF FRAMES CLOUD COVER
	44	48 - 65	1,000 MSL		50 PER CENT OF FRAMES CLOUD COVER
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-36-3J-007-00025	AUG 69	007 OREGON COAST EXPOSURE NUMBERS	ALTITUDE		HASSELBLAD A, 2448, 24V, 3 IN. REMARKS
	LINE		SCALE		
	6+7	1 - 58	1,000 MSL		CLOUDS + FOG - IMAGE TOO POOR TO IDENTIFY FLIGHT LINES AND FRAMES
	8+9	1 - 58	1,000 MSL		CLOUDS + FOG - IMAGE TOO POOR TO IDENTIFY FLIGHT LINES AND FRAMES
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-36-3J-007-00026	AUG 69	007 OREGON COAST EXPOSURE NUMBERS	ALTITUDE	99	HASSELBLAD A, 2448, 24V, 3 IN. REMARKS
	LINE		SCALE		
	1	1 - 43	1,000 MSL		DARK
	2	44 - 86	1,000 MSL		DARK
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-36-CJ-007-00027	AUG 69	007 OREGON COAST	ALTITUDE 1,000 MSL	99 SCALE 1:4,000	HASSELBLAD A. 2448, 24V, 3 IN.
	LINE 3	EXPOSURE NUMBERS 1 - 43			10 4 44 - 77 1:050 MSL 1.
	ROLL 10				MAP NO. NK 10-2; NL 10-8, NL 10-11, NK 10-1,4
VR-36-CJ-007-00028	AUG 69	C 7 OREGON COAST	ALTITUDE 1,000 MSL	99 SCALE 1:4,000	HASSELBLAD A. 2448, 24V, 3 IN.
	LINE 21	EXPOSURE NUMBERS 1 - 10			HEAVY OVERCAST
	11 22	11 - 19			HEAVY OVERCAST
	11 23	20 - 28			HEAVY OVERCAST
	11 24	29 - 37			HEAVY OVERCAST - FLIGHTLINES
	11 25	38 - 42			INDEFINITE
	11 26	43 - 44			INDEFINITE
	11 27	45 - 46			INDEFINITE
	11 28	47 - 48			INDEFINITE
	11 29	49 - 51			INDEFINITE
					MAP NO. NK 10-2; NL 10-8, NL 10-11, NK 10-1,4
VR-36-CJ-007-00029	AUG 69	007 OREGON COAST	ALTITUDE 1,000 MSL	99 SCALE 1:4,000	HASSELBLAD A. 2448, 24V, 3 IN.
	LINE 31	EXPOSURE NUMBERS 1 - 9			
	12 32	10 - 18			
	12 33	19 - 27			
	12 34	28 - 34			
	12 35	35 - 45			
	12 36	46 - 50			
	12 37	51 - 63			
	12 38	64 - 76			
	12 39	77 - 83			
					MAP NO. NK 10-2; NL 10-8, NL 10-11, NK 10-1,4

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-37-J-194-00001	AUG 69	194	DENVER, COLORADO	101	HASSELBLAD B, 25A, 2402, 3 IN, REMARKS
VR-37-EJ-011-00002	AUG 69	011	YELLOWSTONE PARK	101	HASSELBLAD B, 5A, 3400, 3 IN, REMARKS
VR-37-J-149-00003	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	HASSELBLAD B, 5A, 3400, 3 IN, REMARKS
VR-37-EJ-011-00004	AUG 69	011	YELLOWSTONE PARK	101	HASSELBLAD B, 25A, 3400, 3 IN, REMARKS
VR-37-J-149-00005	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	HASSELBLAD B, 5A, 3400, 3 IN, REMARKS
VR-37-J-195-00006	AUG 69	195	BROOKINGS, SOUTH DAKOTA	101	HASSELBLAD B, 5A, 3400, 3 IN, REMARKS

THE AIRCRAFT WAS OFF COURSE DURING THIS LINE.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-37-EJ-186-00007 09	AUG 69	186 CLARKS FORK, WYOMING	ALTITUDE 60,000 MSL 60,000 MSL 60,000 MSL	101	HASSELBLAD B, 25A, 3400, 3 IN. REMARKS
VR-37-EJ-011-00008 09	AUG 69	011 YELLOWSTONE PARK	ALTITUDE 60,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL	101	HASSELBLAD B, 25A, 3400, 3 IN. REMARKS
VR-37-EJ-030-00009 10	AUG 69	030 TUCSON/AJO, ARIZONA	ALTITUDE 50,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL	101	HASSELBLAD B, 25-A, 3400, 3 IN. REMARKS
VR-37-EJ-185-00010 11	AUG 69	185 WEST, BONANZA AREA, COLORADO	ALTITUDE 60,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL	101	HASSELBLAD B, 25-A, 2402, 3 IN. REMARKS
VR-37-EJ-185-00011 12	AUG 69	185 EAST, BONANZA AREA, COLORADO	ALTITUDE 60,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL	101	HASSELBLAD B, 25-A, 2402, 3 IN. REMARKS CLOUD COVER APPROXIMATELY 30 PER CENT CIRRUS. CLOUD COVER APPROXIMATELY 50 PER CENT CIRRUS. CLOUD COVER APPROXIMATELY 80 PER CENT CIRRUS AND CUMULUS. LINE TERMINATED EARLY BECAUSE OF CLOUD COVER.
VR-37-EJ-193-00012 17	JUL 69	193 ELDOorado FOREST	ALTITUDE 60,000 MSL 60,000 MSL 60,000 MSL	100	HASSELBLAD B, 2A, EXTACHROME 2448, 3 IN. REMARKS MAP NO. NJ 10-6.



IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-37-3J-020-00013 16 ROLL 2 LINE 8	JUL 69 020 BUCKS LAKE EXPOSURE NUMBERS 62 - 76	ALTITUDE 60,000 MSL	SCALE 1.360,000	100	HASSELBLAD B, 2A, EXTRACHROME 2448, 3 IN. REMARKS MAP NO. NJ 10-3.
VR-37-3J-135-00014 18 ROLL 2 LINE 3 4	JUL 69 135 HARVEY VALLEY EXPOSURE NUMBERS 27 - 40 21 - 61	ALTITUDE 60,000 MSL 60,000 MSL	SCALE 1.360,000 1.360,000	100	HASSELBLAD B, 2A, EXTRACHROME 2448, 3 IN. REMARKS MAP NO. NK 10-12.
VR-37-3J-189-00015 18 ROLL 2 LINE 1 2	JUL 69 189 KLAMATH FALLS EXPOSURE NUMBERS 01 - 10 11 - 21	ALTITUDE 60,000 MSL 60,000 MSL	SCALE 1.360,000 1.360,000	100	HASSELBLAD B, 2A, EXTRACHROME 2448, 3 IN. REMARKS MAP NO. NK -0-6.
VR-37-3J-048-00016 17 ROLL 1 LINE 7 8 9	JUL 69 048 SAN PABLO RESERVOIR EXPOSURE NUMBERS 01 - 12 44 - 58 59 - 73	ALTITUDE 60,000 MSL 60,000 MSL 60,000 MSL	SCALE 1.360,000 1.360,000 1.360,000	100	HASSELBLAD B, 2A, EXTRACHROME 2448, 3 IN. REMARKS MAP NO. NJ 10-8.
VR-37-3J-007-00017 16 ROLL 2 LINE 3 4 2 2 5	JUL 69 007 OREGON COAST EXPOSURE NUMBERS 001 - 051 032 - 066 067 - 081 082 - 105	ALTITUDE 60,000 MSL 60,000 MSL 60,000 MSL 60,000 MSL	SCALE 1.120,000 1.120,000 1.120,000 1.120,000	100	HASSELBLAD B, 5A, 3400, 3 IN. REMARKS MOUTH OF COLUMBIA RIVER FOGGING IN LAST 12 FRAMES MAP NOS. NK 10-9, NL 10-8, NL 10-11, NK 10-1, 4.
VR-37-3J-007-00018 05 ROLL 2 LINE 3 4	AUG 69 007 OREGON COAST EXPOSURE NUMBERS 1 - 47 48 - 93	ALTITUDE 1,000 MSL 1,000 MSL	SCALE 1.4,000 1.4,000	99	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS DARK DARK MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1, 4
VR-37-3J-007-00019 05 ROLL 1 LINE 1 2	AUG 69 007 OREGON COAST EXPOSURE NUMBERS 1 - 47 47 - 91	ALTITUDE 1,000 MSL 1,000 MSL	SCALE 1.4,000 1.4,000	99	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS VERY POOR IMAGE FLIGHT LINES AND FRAMES NOT MARKED. MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1, 4
VR-37-3J-007-00020 11 ROLL 8 LINE 6+7 8 8+9	AUG 69 007 OREGON COAST EXPOSURE NUMBERS 1 - 47 47 - 91	ALTITUDE 1,000 MSL 1,000 MSL	SCALE 1.4,000 1.4,000	99	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS FOG + CLOUDS - IMAGE TOO POOR TOO IDENTIFY FLIGHT LINES AND FRAMES FOG + CLOUDS - IMAGE TOO POOR TOO IDENTIFY FLIGHT LINES + FRAMES. MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1, 4

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-37-3J-007-00021 05	AUG 69	007	OREGON COAST	99	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS POOR IMAGE - FRAMES NOT MARKED POOR IMAGE - FRAMES NOT MARKED MAP NO. NK 10-2. NL 10-8, NL 10-11, NK 10-1.4
VR-37-3J-007-00022 06	AUG 69	007	OREGON COAST	99	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS DARK DARK DARK MAP NO. NK 10-2. NL 10-8, NL 10-11, NK 10-1.4
VR-37-3J-007-00023 12	AUG 69	007	OREGON COAST	99	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS DARK DARK DARK DARK DARK DARK DARK DARK DARK DARK DARK MAP NO. NK 10-2. NL 10-8, NL 10-11, NK 10-1.4
VR-37-3J-007-00024 06	AUG 69	007	OREGON COAST	99	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS 2 FRAMES UNEXPOSED EXCESS FRAMES MAP NO. NK 10-2. NL 10-8, NL 10-11, NK 10-1.4
VR-37-3J-007-00025 06	AUG 69	007	OREGON COAST	99	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS DARK DARK DARK DARK DARK DARK MAP NO. NK 10-2. NL 10-8, NL 10-11, NK 10-1.4
VR-37-3J-007-00026 06	AUG 69	007	OREGON COAST	99	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS IMAGE VERY DARK - FRAMES AND FLIGHT LINES NOT IDENTIFIED IMAGE VERY DARK - FRAMES AND FLIGHT LINES NOT IDENTIFIED IMAGE VERY DARK - FRAMES AND FLIGHT LINES NOT IDENTIFIED IMAGE VERY DARK - FRAMES AND FLIGHT LINES NOT IDENTIFIED MAP NO. NK 10-2. NL 10-8, NL 10-11, NK 10-1.4

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-37-3J-007-00027	11 ROLL 9	AUG 69 LINE 1 EXPOSURE 1 - 43 NUMBERS 44 - 92	ALTITUDE 1,000 MSL 1,000 MSL	99 SCALE 1.4,000 1.4,000	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS DARK DARK MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-37-3J-007-00028	07 ROLL 7	AUG 69 LINE 41 EXPOSURE 1 - 23 NUMBERS 24 - 36 37 - 47 48 - 66	ALTITUDE 1,000 MSL 1,000 MSL 1,000 MSL 1,000 MSL	99 SCALE 1.4,000 1.4,000 1.4,000 1.4,000	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS FRAMES NOT MARKED - POOR IMAGE FRAMES NOT MARKED - POOR IMAGE FRAMES NOT MARKED - POOR IMAGE FRAMES NOT MARKED - POOR IMAGE MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-37-3J-007-00029	05 ROLL 3	AUG 69 LINE 6 EXPOSURE 1 - 48 NUMBERS 49 - 89	ALTITUDE 1,000 MSL 1,000 MSL	99 SCALE 1.4,000 1.4,000	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS DARK DARK MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4
VR-37-3J-007-00030	11 ROLL 10	AUG 69 LINE 3 EXPOSURE 1 - 43 NUMBERS 44 - 86	ALTITUDE 1,000 MSL 1,000 MSL	99 SCALE 1.4,000 1.4,000	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS DARK DARK
VR-37-3J-007-00031	12 ROLL 11	AUG 69 LINE 21-29 EXPOSURE 1 - 21 NUMBERS	ALTITUDE 1,000 MSL	99 SCALE 1.4,000	HASSELBLAD B, 3400, 4-25, 3 IN. REMARKS IMAGE TOO DARK TO IDENTIFY FLT LINES AND FRAMES MAP NO. NK 10-2, NL 10-8, 10-11, NK 10-1,4

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-39--J-194-00001	AUG 69	194 DENVER, COLORADO	ALTITUDE	101	HASSELBLAD C, 57, 2402, 3 IN. REMARKS
VR-38-EJ-011-00002	AUG 69	011 YELLOWSTONE PARK	ALTITUDE	101	HASSELBLAD C, 25A, 3400, 3 IN. REMARKS
VR-39--J-149-00003	AUG 69	149 BLACK HILLS, SOUTH DAKOTA	ALTITUDE	101	HASSELBLAD C, 25A, 3400, 3 IN. REMARKS
VR-38-EJ-011-00004	AUG 69	011 YELLOWSTONE PARK	ALTITUDE	101	HASSELBLAD C, 5A, 3400, 3 IN. REMARKS
VR-38--J-149-00005	AUG 69	149 BLACK HILLS, SOUTH DAKOTA	ALTITUDE	101	HASSELBLAD C, 25-A, 3400, 3 IN. REMARKS
VR-38--J-195-00006	AUG 69	195 BROOKINGS, SOUTH DAKOTA	ALTITUDE	101	HASSELBLAD C, 25-A, 3400, 3 IN. REMARKS

THE AIRCRAFT WAS OFF COURSE DURING THIS LINE.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-39-EJ-186-00007 09	AUG 69	186	CLARKS FORK, WYOMING	101	HASSELBLAD C. 5A, 3400. 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	10	001 - 005	60,000 MSL	1.120,000	
	10	006 - 010	60,000 MSL	1.120,000	
VR-38-EJ-011-00008 09	AUG 69	011	YELLOWSTONE PARK	101	HASSELBLAD C. 5A, 3400. 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	10	016 - 027	60,000 MSL	1.120,000	
	10	028 - 039	60,000 MSL	1.120,000	
VR-38-EJ-030-00009 10	AUG 69	030	TUCSON/AJO, ARIZONA	101	HASSELBLAD C. 5A, 3400. 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	13	001 - 023	60,000 MSL	1.120,000	LIGHT LEAK
	13	024 - 041	60,000 MSL	1.120,000	LIGHT LEAK
VR-38-EJ-185-00010 11	AUG 69	185	WEST, SONAVZA AREA, COLORADO	101	HASSELBLAD C. 57, 2402. 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	4	001 - 011	60,000 MSL	1.120,000	
	4	012 - 032	60,000 MSL	1.120,000	
VR-38-EJ-193-00011 12	AUG 69	185	EAST, SONAVZA AREA, COLORADO	101	HASSELBLAD C. 57, 2402. 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	8	001 - 023	60,000 MSL	1.120,000	CLOUD COVER APPROXIMATELY 30 PER CENT CIRRUS.
	8	024 - 046	60,000 MSL	1.120,000	CLOUD COVER APPROXIMATELY 50 PER CENT CIRRUS.
VR-38-EJ-193-00012 17	JUL 69	193	ELDORADO FOREST	100	HASSELBLAD C. 5A, 3400. 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	7	13 - 27	60,000 MSL	1.136,000	
	7	28 - 43	60,000 MSL	1.136,000	MAP NO. VJ 10-6.
VR-38-EJ-020-00013-18	JUL 69	020	BUCKS LAKE	100	HASSELBLAD C. 5A, 3400. 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	9	67 - 81	60,000 MSL	1.360,000	
	9	82 - 100	60,000 MSL	1.360,000	MAP NO. N.J. 10-3.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-38-3J-135-00014	JUL 69	135	HARVEY VALLEY	100	HASSELBLAD C. 5A, 3400, 3 IN. MAP NO. NK 10-12.
VR-38-3J-189-00015	JUL 69	189	KLAMATH FALLS	100	HASSELBLAD C. 5A, 3400, 3 IN. MAP NO. NK 10-6.
VR-38-3J-048-00016	JUL 69	048	SAN PABLO RESERVOIR	100	HASSELBLAD C. 5A, 3400, 3 IN. MAP NO. NJ 10-8.
VR-38-3J-007-00017	JUL 69	007	OREGON COAST	100	HASSELBLAD C. 2A-4, 3400, 3 IN. MOUTH OF COLUMBIA RIVER MAP NOS. NK 10-2, VL 10-8, NL 10-11, NK 10-14.
VR-38-3J-007-00018	AUG 69	007	OREGON COAST	99	HASSELBLAD C. 3400, 4-47, 3 IN. FRAMES 73-75 NOT EXPOSED MAP NO. NK 10-2, VL 10-8, NL 10-11, NK 10-14
VR-38-3J-007-00019	AUG 69	007	OREGON COAST	99	HASSELBLAD C. 3400, 4-47, 3 IN. MAP NO. NK 10-2, VL 10-8, NL 10-11, NK 10-14
VR-38-3J-007-00020	AUG 69	007	OREGON COAST	99	HASSELBLAD C. 3400, 4-47, 3 IN. FRS 32-37 ORBITING OVER COOS BAY CAMERA OUT OF FILM MAP NO. NK 10-2, VL 10-8, NL 10-11, NK 10-14

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS. STON	INSTRUMENT CONFIGURATION	
VR-38-3J-007-00021 05	AUG 69	007 OREGCN COAST	ALTITUDE 1,000 MSL 1,000 MSL	99	HASSELBLAD C, 3400, 4-47, 3 IN.	
					DARK	
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4	
VR-38-3J-007-00022 11	AUG 69	007 OREGCN COAST	ALTITUDE 1,000 MSL 1,000 MSL	99	HASSELBLAD C, 3400, 4-47, 3 IN.	
					DARK	
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4	
VR-38-3J-007-00023 07	AUG 69	007 OREGCN COAST	ALTITUDE 1,000 MSL 1,000 MSL 1,000 MSL	99	HASSELBLAD C, 3400, 4-47, 3 IN.	
					DARK	
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4	
VR-38-3J-007-00024 05	AUG 69	007 OREGCN COAST	ALTITUDE 1,000 MSL 1,000 MSL	99	HASSELBLAD C, 3400, 4-47, 3 IN.	
					DARK	
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4	
VR-38-3J-007-00025 06	AUG 69	007 OREGCN COAST	ALTITUDE 1,000 MSL 1,000 MSL	99	HASSELBLAD C, 3400, 4-47, 3 IN.	
					DARK	
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4	
VR-38-3J-007-00026 12	AUG 69	007 OREGCN COAST	ALTITUDE 1,000 MSL	99	HASSELBLAD C, 3400, 4-47, 3 IN.	
					IMAGE TOO DARK TO IDENTIFY FLT LINES + FRAMES	
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4	
VR-38-3J-007-00027 11	AUG 69	007 OREGCN COAST	ALTITUDE 1,000 MSL 1,000 MSL	99	HASSELBLAD C, 3400, 4-47, 3 IN.	
					DARK	
					FLT LN. 9 NOT IDENTIFIED	
					MAP NO. NK 10-2, NL 10-8, NL 10-11, NK 10-1,4	







IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-39-3J-030-00008	AUG 69	030	TUCSON/AJO, ARIZONA	101	HASSELBLAD D, 89-3, 50246, 3 IN. REMARKS
VR-39-3J-185-00009	AUG 69	185	WEST, BONANZA AREA, COLORADO	101	HASSELBLAD D, 89-3, 50246, 3 IN. REMARKS
VR-39-3J-193-00010	JUL 69	193	ELDORADO FOREST	100	HASSELBLAD D, 25A, 3400, 3 IN. REMARKS
VR-39-3J-020-00011	JUL 69	020	BUCKS LAKE	100	HASSELBLAD D, 25A, 3400, 3 IN. REMARKS
VR-39-3J-135-00012	JUL 69	135	HAYVEY VALLEY	100	HASSELBLAD D, 25A, 3400, 3 IN. REMARKS
VR-39-3J-189-00013	JUL 69	189	KLAMATH FALLS	100	HASSELBLAD D, 25A, 3400, 3 IN. REMARKS
VR-39-3J-048-00014	JUL 69	048	SAN PABLO RESERVOIR	100	HASSELBLAD D, 25A, 3400, 3 IN. REMARKS
VR-39-3J-007-00015	JUL 69	007	OREGON COAST	100	HASSELBLAD D, 28 + 38, 3400, 3 IN. REMARKS

MOUTH OF COLUMBIA RIVER  
MAP NOS, NK 10-2, NL 10-8, NK 10-11, NK 10-14.



IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-39-3J-007-00023	AUG 69 LINE 3	007 OREGCN COAST EXPOSURE NUMBERS 1 - 43 44 - 84	ALTITUDE 1,000 MSL 1,000 MSL	99	HASSELBLAD D. 3400, 4-50, 3 IN. REMARKS
					DARK
					MAP NO. NK 10-2; NL 10-8, NL 10-11, NK 10-1,4
VR-39-3J-007-00024	AUG 69 LINE 41-44	007 OREGCN COAST EXPOSURE NUMBERS 1 - 66	ALTITUDE 1,000 MSL	99	HASSELBLAD D. 3400, 4-50, 3 IN. REMARKS
					POOR IMAGE - FRAMES AND FLT. LINES NOT IDENTIFIED
					MAP NO. NK 10-2; NL 10-8, NL 10-11, NK 10-1,4
VR-39-3J-007-00025	AUG 69 LINE 1-2	007 OREGCN COAST EXPOSURE NUMBERS 1 - 90	ALTITUDE 1,000 MSL	99	HASSELBLAD D. 3400, 4-50, 3 IN. REMARKS
					DARK IMAGE - FRAMES & FLIGHT LINES NOT IDENTIFIED
					MAP NO. NK 10-2; NL 10-8, NL 10-11, NK 10-1,4
VR-39-3J-007-00026	AUG 69 LINE 6-9	007 OREGCN COAST EXPOSURE NUMBERS 1 - 58	ALTITUDE 1,000 MSL	99	HASSELBLAD D. 3400, 4-50, 3 IN. REMARKS
					FLIGHT LINES 6 THRU 9 FRAMES 1-58, DARK IMAGE - FRAMES & FLIGHT LINES NOT IDENTIFIED
					MAP NO. NK 10-2; NL 10-8, NL 10-11, NK 10-1,4
VR-39-3J-007-00027	AUG 69 LINE 1	007 OREGCN COAST EXPOSURE NUMBERS 1 - 43 44 - 88	ALTITUDE 1,000 MSL 1,000 MSL	99	HASSELBLAD D. 3400, 4-50, 3 IN. REMARKS
					FRAMES 76 & 77 NOT EXPOSED
					MAP NO. NK 10-2; NL 10-8, NL 10-11, NK 10-1,4
VR-39-3J-007-00028	AUG 69 LINE 31	007 OREGCN COAST EXPOSURE NUMBERS 1 - 9 10 - 18 19 - 27 28 - 34 35 - 45 46 - 50 51 - 63 64 - 76 77 - 82	ALTITUDE 1,000 MSL 1,000 MSL 1,000 MSL 1,000 MSL 1,000 MSL 1,000 MSL 1,000 MSL 1,000 MSL 1,000 MSL	99	HASSELBLAD D. 3400, 4-50, 3 IN. REMARKS
					DARK
					DARK
					DARK
					MAP NO. NK 10-2; NL 10-8, NL 10-11, NK 10-1,4

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-40-EJ-011-00001 02	AUG 69	011	YELLOWSTONE PARK	101	HASSELBLAD E, 15G, S0180, 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	001 - 010	60,000 MSL	1.120,000	
VR-40-EJ-149-00002 03	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	HASSELBLAD E, 15G, S0180, 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	013 - 030	60,000 MSL	1.120,000	
VR-40-EJ-149-00003 08	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	HASSELBLAD E, 15G, S0180, 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	001 - 020	60,000 MSL	1.120,000	
VR-40-EJ-195-00004 08	AUG 69	195	BROOKINGS, SOUTH DAKOTA	101	HASSELBLAD E, 15G, S0180, 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	074 - 086	60,000 MSL	1.120,000	
VR-40-EJ-186-00005 09	AUG 69	186	CLARKS FORK, WYOMING	101	HASSELBLAD E, 15G, S0180, 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	001 - 009	60,000 MSL	1.120,000	
VR-40-EJ-011-00006 09	AUG 69	011	YELLOWSTONE PARK	101	HASSELBLAD E, 15G, S0180, 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	016 - 027	60,000 MSL	1.120,000	
VR-40-EJ-030-00007 10	AUG 69	030	TUCSON/AJO, ARIZONA	101	HASSELBLAD E, 15G, S0180, 3 IN.
	ROLL	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
	1	001 - 023	60,000 MSL	1.120,000	

THE AIRCRAFT WAS OFF COURSE DURING THIS LINE.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-40-3J-185-00008	11 AUG 69	185 WEST, ROMANZA AREA, COLORADO	101	HASSELBLAD E, 25-A, 2402, 3 IN.	REMARKS
ROLL 1	LINE 10	EXPOSURE NUMBERS 092 - 117	ALTITUDE 60,000 MSL	SCALE 1.120,000	
5	8	114 - 138	60,000 MSL	1.120,000	
5	6	139 - 161	60,000 MSL	1.120,000	
5	4	162 - 181	60,000 MSL	1.120,000	
5	2	182 - 187	60,000 MSL	1.120,000	
VR-40-3J-193-00009	17 JUL 69	193 ELDORADO FOREST	100	HASSELBLAD E, 89-3, 3-W IR S0246, 3 IN.	REMARKS
ROLL 1	LINE 7	EXPOSURE NUMBERS 13 - 27	ALTITUDE 60,000 MSL	SCALE 1.136,000	
1	8	28 - 43	60,000 MSL	1.136,000	MAP NO. NJ 10-6.
VR-40-3J-020-00010	18 JUL 69	020 BUCKS LAKE	100	HASSELBLAD E, 89-3, 3-W IR S0246, 3 IN.	REMARKS
ROLL 1	LINE 8	EXPOSURE NUMBERS 62 - 82	ALTITUDE 60,000 MSL	SCALE 1.360,000	MAP NO. NJ 10-3.
VR-40-3J-135-00011	18 JUL 69	135 HARVEY VALLEY	100	HASSELBLAD E, 89B, 8-W IR S0246, 3 IN.	REMARKS
ROLL 1	LINE 3	EXPOSURE NUMBERS 22 - 41	ALTITUDE 60,000 MSL	SCALE 1.360,000	MAP NO. NK 10-12
2	4	42 - 62	60,000 MSL	1.360,000	
VR-40-3J-189-00012	18 JUL 69	189 KLAMATH FALLS	100	HASSELBLAD E, 89B, 8-W IR S0246, 3 IN.	REMARKS
ROLL 1	LINE 1	EXPOSURE NUMBERS 01 - 10	ALTITUDE 60,000 MSL	SCALE 1.360,000	MAP NO. NK 10-6.
2	2	11 - 21	60,000 MSL	1.360,000	
40-3J-048-00013	17 JUL 69	048 SAN PABLO RESERVOIR	100	HASSELBLAD E, 89-3, 3-W IR S0246, 3 IN.	REMARKS
ROLL 1	LINE 7	EXPOSURE NUMBERS 01 - 12	ALTITUDE 60,000 MSL	SCALE 1.360,000	MAP NO. NJ 10-8.
1	8	44 - 58	60,000 MSL	1.360,000	
1	9	59 - 81	60,000 MSL	1.360,000	
VR-40-3J-007-00014	16 JUL 69	007 OREGON COAST	100	HASSELBLAD E, 65A, 3400, 3 IN.	REMARKS
ROLL 1	LINE 3	EXPOSURE NUMBERS 001 - 030	ALTITUDE 60,000 MSL	SCALE 1.360,000	
5	4	031 - 065	60,000 MSL	1.360,000	
5	2	066 - 080	60,000 MSL	1.360,000	MOUTH OF COLUMBIA RIVER
5	5	081 - 098	60,000 MSL	1.360,000	MAP NOS. NK 10-2, VL 10-8, NL 10-11, NK 10-1,4.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-41-EJ-011-00001 02	AUG 69	011	YELLOWSTONE PARK	101	HASSELBLAD F, 24, SO368, 3 IN. REMARKS
	LINE	EXPOSURE NUMBERS	ALTITUDE		
	ROLL				
VR-41-EJ-011-00002 03	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	HASSELBLAD F, 24, SO368, 3 IN. REMARKS
	LINE	EXPOSURE NUMBERS	ALTITUDE		
	ROLL				
VR-41-EJ-011-00003 04	AUG 69	011	YELLOWSTONE PARK	101	HASSELBLAD F, 24, SO368, 3 IN. REMARKS
	LINE	EXPOSURE NUMBERS	ALTITUDE		
	ROLL				
VR-41-EJ-011-00004 06	AUG 69	149	BLACK HILLS, SOUTH DAKOTA	101	HASSELBLAD F, 24, COLOR SO368, 3 IN. REMARKS
	LINE	EXPOSURE NUMBERS	ALTITUDE		
	ROLL				
VR-41-EJ-011-00005 08	AUG 69	195	BROOKINGS, SOUTH DAKOTA	101	HASSELBLAD F, 24, COLOR SO368, 3 IN. REMARKS
	LINE	EXPOSURE NUMBERS	ALTITUDE		
	ROLL				
VR-41-EJ-011-00006 09	AUG 69	166	CLARKS FORK, WYOMING	101	HASSELBLAD F, 24, SO368, 3 IN. REMARKS
	LINE	EXPOSURE NUMBERS	ALTITUDE		
	ROLL				
VR-41-EJ-011-00007 09	AUG 69	011	YELLOWSTONE PARK	101	HASSELBLAD F, 24, SO368, 3 IN. REMARKS
	LINE	EXPOSURE NUMBERS	ALTITUDE		
	ROLL				

THE AIRCRAFT WAS OFF COURSE DURING THIS LINE.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-41-EJ-030-00008	AUG 69	030	TUCSON/AJO, ARIZONA	101	HASSELBLAD F, 2A, 2448, 3 IN.
ROLL	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
1	1	001 - 023	60,000 MSL	1.120,000	
1	2	024 - 041	60,000 MSL	1.120,000	
1	3	042 - 059	60,000 MSL	1.120,000	
1	4	060 - 076	60,000 MSL	1.120,000	
1	5	077 - 080	60,000 MSL	1.120,000	
VR-41-EJ-185-00009	AUG 69	185	WEST, BONANZA AREA, COLORADO	101	HASSELBLAD F, 57, 2402, 3 IN.
ROLL	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
6	10	092 - 117	60,000 MSL	1.120,000	
6	8	118 - 136	60,000 MSL	1.120,000	
6	6	139 - 161	60,000 MSL	1.120,000	
6	4	162 - 180	60,000 MSL	1.120,000	
VR-41-JJ-193-00010	JUL 69	193	ELDORADO FOREST	100	HASSELBLAD F, 15+ CC308, COLOR IR 80180, 3 IN.
ROLL	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
2	7	13 - 27	60,000 MSL	1.136,000	
1	8	28 - 43	60,000 MSL	1.360,000	MAP NO. NJ 10-6.
VR-41-JJ-020-00011	JUL 69	020	BUCKS LAKE	100	HASSELBLAD F, 15+ CC308, COLOR IR 80180, 3 IN.
ROLL	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
1	8	28 - 43	60,000 MSL	1.360,000	RAN OUT OF FILM MAP NO. NJ 10-3.
VR-41-JJ-135-00012	JUL 69	135	HARVEY VALLEY	100	HASSELBLAD F, 15+CC 308, COLOR IR 80180, 3 IN.
ROLL	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
4	3	41	60,000 MSL	1.360,000	
4	4	42 - 62	60,000 MSL	1.360,000	FRAMES 61 AND 62 ON CLASS NO 6 HAVE A BLUISH TINT MAP NO. NK 10-19.
VR-41-JJ-189-00013	JUL 69	189	KLAMATH FALLS	100	HASSELBLAD F, 15+ CC308, COLOR IR 80180, 3 IN.
ROLL	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
4	1	01 - 10	60,000 MSL	1.360,000	
4	2	11 - 21	60,000 MSL	1.360,000	MAP NO. NK 10-6.
VR-41-JJ-048-00014	JUL 69	048	SAN PABLO RESERVOIR	100	HASSELBLAD F, 15+ CC308, COLOR IR 80180, 3 IN.
ROLL	LINE	EXPOSURE NUMBERS	ALTITUDE	SCALE	REMARKS
2	7	01 - 12	60,000 MSL	1.360,000	
2	8	44 - 58	60,000 MSL	1.360,000	
2	9	59 - 63	60,000 MSL	1.360,000	MAP NO. NJ 10-8.



IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-45-W-092-00001 25	JUN 69	092	PUERTO RICO	98	SLAR 16.5 GHZ
	LINE 4	5	START		
	ROLL 2	5	0.8 IN.		
	2	5	17.2 IN.		
	2	5	20,000 MSL		
VR-45-W-092-00002 27	JUN 69	192	BARBADOS	98	SLAR 16.5 GHZ
	LINE 7	1	5.7 IN.		
	ROLL 3	1	8.8 IN.		
	3	1	15,000 MSL		
	3	1	19.6 IN.		
VR-45-W-092-00003 24	JUN 69	092	PUERTO RICO	98	SLAR 16.5 GHZ
	LINE 6	4	12.5 IN.		
	ROLL 1	4	22.3 IN.		
	1	4	20,000 MSL		
	1	4	26.9 IN.		
VR-45-FJ-085-00004 26	AUG 69	085	LAWRENCE, KANSAS	102	SLAR, 16.5 GHZ
	LINE 6	7	3.9		
	ROLL 2	7	7		
	2	7	10.9		
	2	7	15.0		
VR-45-FJ-076-00005 04	SEP 69	076	GARDEN CITY, KANSAS	102	SLAR, 16.5 GHZ
	LINE 15	9	3.3		
	ROLL 2A	9	77		
	2A	9	20,000 MSL		
	2A	9	20,000 MSL		
VR-45-FJ-076-00006 04	SEP 69	076	GARDEN CITY, KANSAS	102	SLAR, 16.5 GHZ
	LINE 15	9	11.7		
	ROLL 3	9	15.3		
	3	9	20,000 MSL		
	3	9	20,000 MSL		
	SEP 69	076	GARDEN CITY, KANSAS	102	SLAR, 16.5 GHZ
	LINE 10	9	3.4		
	ROLL 3	9	7.4		
	3	9	23.2		
	3	9	20,000 MSL		
	SEP 69	076	GARDEN CITY, KANSAS	102	SLAR, 16.5 GHZ
	LINE 14	9	19.0		
	ROLL 3	9	26.9		
	3	9	31.0		
	3	9	20,000 MSL		
	SEP 69	076	GARDEN CITY, KANSAS	102	SLAR, 16.5 GHZ
	LINE 13	9	42.6		
	ROLL 3	9	46.9		
	3	9	20,000 MSL		
	3	9	20,000 MSL		
	SEP 69	076	GARDEN CITY, KANSAS	102	SLAR, 16.5 GHZ
	LINE 11	9	34.8		
	ROLL 3	9	39.0		
	3	9	55.4		
	3	9	20,000 MSL		
	SEP 69	076	GARDEN CITY, KANSAS	102	SLAR, 16.5 GHZ
	LINE 12	9	50.3		
	ROLL 3	9	63.2		
	3	9	20,000 MSL		
	3	9	20,000 MSL		

STOP WAS CLEARED TO 46.9.  
MAP NOS, NJ 15-4 + NJ 15-4

STOP CLEARED TO 0.9  
K4-62A MALFUNCTION  
MAP NOS, NJ 14-4 + NJ 14-7

STOP CLEARED TO 66.2.  
MAP NOS, NJ 14-4 + NJ 14-7



IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION	
VR-46--L-166-00001 6-14	MAR 69	166	ICELAND - SEA STATE	88	KA-62 2402	5 IV.
VR-46--L-166-00002 6-14	MAR 69	166	ICELAND - SEA STATE	88	KA-62 50-246	5 IV. 250
VR-46--H-092-00003 21	JUN 69	092	PUERTO RICO	98	KA-62A, 25A, 2402, 3 IV.	REMARKS
	ROLL	LINE	EXPOSURE NUMBERS		CHECKOUT EXPOSURES	
	1	188 -			A+B FAILED, CLOUDS + HAZE	
	1	23	143	SCALE	ALL CAMERAS MALFUNCTIONING	
	1	6	198 - 203	20,200 MSL		
	1	9	204 - 211	20,200 MSL		
	1	10	212 - 220	20,200 MSL		
	1	11	221 - 229	20,200 MSL		
	1	16	242 - 251	20,000 MSL		
	1	15	252 - 273	20,000 MSL		
	1	14	274 - 286	20,000 MSL		
VR-46--H-092-00004 23	JUN 69	092	PUERTO RICO	98	KA-62A, 25A, 2402, 3 IV.	REMARKS
	ROLL	LINE	EXPOSURE NUMBERS		50 PER CENT CLOUDS	
	1	4	294 - 296	SCALE		
	1	5	298 - 309	20,300 MSL		
	1	21	311 - 386	20,000 MSL		
VR-46--H-092-00005 24	JUN 69	092	PUERTO RICO	98	KA-62A MALFUNCTION	REMARKS
	ROLL	LINE	EXPOSURE NUMBERS		KA-62A MALFUNCTION	
	1	20	397 - 403	ALTITUDE		
	1	5	405 - 422	5,000 MSL		
				20,000 MSL		
VR-46--H-092-00006 25	JUN 69	092	PUERTO RICO	98	KA-62A, 25A, 2402, 3 IV.	REMARKS
	ROLL	LINE	EXPOSURE NUMBERS			
	1	20	425 - 439	SCALE		
	1	4	441 - 469	20,000 MSL		
	1	6	471 - 494	20,000 MSL		
	1	5	496 - 519	20,000 MSL		
	1	21	521 - 568	20,000 MSL		
VR-46--JG-192-00007 27	JUN 69	192	BARBADOS	98	KA-62A, 25A, 2402, 3 IV.	REMARKS
	ROLL	LINE	EXPOSURE NUMBERS		TEST + CHECKOUT	
	1	1	584 - 604	SCALE	TEST	
	1	2	605 - 629	1,12,000		
	1	2	630 - 676	3,000 MSL		
	1	6	677 - 689	1,12,000		
	1	6	687 - 700	15,000 MSL		
	1	6	701 - 726	15,000 MSL		
	1	5	731 - 736	1,60,000		
	1	6	737 - 749	1,60,000		

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-46-EK-039-00008 27	AUG 69	039	EASTERN BEAR TOOTH MOUNTAINS	102	KA-62A, 25A, 24n2, 3 IV.
VR-46-EJ-186-00009 27	AUG 69	186	CLARKS FORK, WYOMING	102	KA62-A, 25A, 24n2, 3 IV.
VR-46-EK-197-00010 26	AUG 69	197	CHIPPEWA NATIONAL FOREST	102	KA-62A, 25A, 24n2, 3 IV.
VR-46-EJ-085-00011 28	AUG 69	085	LAWRENCE, KANSAS	102	KA-62A, 25A, 24n2, 3 IV.
VR-46-EJ-076-00012 04	SEP 69	076	JARDEN CITY, KANSAS	102	KA-62A, 25A, 24n2, 3 IV.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-47-4H-092-00001	JUN 69	092	PUERTO RICO	98	CHECKOUT EXPOSURES A+B FAILED, CLOUDS + HAZE A+B FAILED, CLOUDS + HAZE ALL CAMERAS MALFUNCTIONING
ROLL 1	LINE 13	EXPOSURE 133 - 135	ALTITUDE 20,200 MSL	SCALE 1.80,000	
1	23		20,200 MSL	1.80,000	
1	3	143 - 150	20,200 MSL	1.80,000	
1	6	144 - 158	20,200 MSL	1.80,000	
1	10	151 - 168	20,200 MSL	1.80,000	
1	11	159 - 177	20,200 MSL	1.80,000	
1	16	169 - 200	20,200 MSL	1.80,000	
1	15	191 - 222	20,200 MSL	1.80,000	
1	14	201 - 225	20,200 MSL	1.80,000	
VR-47-4H-092-00002	JUN 69	092	PUERTO RICO	98	KA-628, 478, 24x2, 3 IN. REMARKS 50 PER CENT CLOUDS
ROLL 1	LINE 4	EXPOSURE 242 - 244	ALTITUDE 20,000	SCALE 1.80,000	
1	5	247 - 258	20,000	1.80,000	
1	21	260 - 339	5,000	1.20,000	
VR-47-4H-092-00003	JUN 69	092	PUERTO RICO	98	KA-628, 478, 24x2, 3 IN. REMARKS
ROLL 1	LINE 16	EXPOSURE 346 - 359	ALTITUDE 5,000 MSL	SCALE 1.20,000	
1	17	360 - 383	5,000 MSL	1.20,000	
1	20	387 - 396	5,000 MSL	1.20,000	
1	5	399 - 415	20,000 MSL	1.80,000	
VR-47-4H-092-00004	JUN 69	092	PUERTO RICO	98	KA-628, 478, 24x2, 3 IN. REMARKS
ROLL 1	LINE 20	EXPOSURE 418 - 432	ALTITUDE 20,000 MSL	SCALE 1.80,000	
1	4	434 - 462	20,000 MSL	1.80,000	
1	6	464 - 487	20,000 MSL	1.80,000	
1	5	489 - 512	20,000 MSL	1.80,000	
1	21	514 - 568	5,000 MSL	1.20,000	
VR-47-JG-192-00005	JUN 69	192	BARBADOS	98	KA-628, 478, 24x2, 3 IN. REMARKS TEST + CHECKOUT TEST
ROLL 1	LINE 1	EXPOSURE 576 - 596	ALTITUDE 3,000 MSL	SCALE 1.12,000	
1	2	597 - 622	3,000 MSL	1.12,000	
1	2	623 - 669	3,000 MSL	1.12,000	
1	1	670 - 678	15,000 MSL	1.60,000	
1	6	680 - 694	15,000 MSL	1.60,000	
1	6	724 - 729	15,000 MSL	1.60,000	
1	5	724 - 729	15,000 MSL	1.60,000	
1	6	730 - 742	15,000 MSL	1.60,000	

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-47-EK-039-00006 27	AUG 69	039	EASTERN BEAR TOOTH MOUNTAINS	102	KA-623, 47B, 2402, 3 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	1	1	0481 - C507	1.26,000	MAG. HEADING 304 DEGREE.
	1	2	0508 - C533	1.26,000	MAG. HEADING 120 DEGREE.
	1	2	0534 - C554	1.26,000	MAG. HEADING 120 DEGREE.
VR-47-EJ-186-00007 27	AUG 69	186	CLARKS FORK, WYOMING	102	KA-623, 47B, 2402, 3 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	1	1	0555 - C574	1.26,000	MAG. HEADING 234 DEGREE.
	1	2	0575 - C592	1.26,000	MAG. HEADING 43 DEGREE.
	1	3	0593 - C612	1.26,000	MAG. HEADING 234 DEGREE.
VR-47-FK-197-00008 26	AUG 69	197	CHIPPENAW NATIONAL FOREST	102	KA-628, 47A, 2402, 3 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	1	1	0002 - 0060	1.14,000	MAG. HEADING 26A DEGREE; FLIGHT NO. 2
	1	1	0083 - C164	1.14,000	MAG. HEADING 274 DEGREE; FLIGHT NO. 3
	1	1	0165 - C271	1.6,000	MAG. HEADING 104 DEGREE.
VR-47-FJ-085-00009 26	AUG 69	085	LAWRENCE, KANSAS	102	KA-628, 47B, 2402, 3 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	2	16	0000 - 0023	1.40,000	HAZE. MAG. HEADING 274 DEGREE.
	2	14	0024 - 0050	1.40,000	CLOUD COVER, APPROX. 10-50 PER CENT
	2	17	0051 - 0074	1.40,000	LINE. MAG. HEADING 272 DEGREE.
VR-47-FJ-076-00010 04	SEP 69	076	GARDEN CITY, KANSAS	102	KA-628, 47B, 2402, 3 IN.
	ROLL	LINE	EXPOSURE NUMBERS	SCALE	REMARKS
	3	10	0001 - 0009	1.80,000	MAG. HEADING 34A DEGREE.
	3	10	0013 - 0024	1.80,000	MAG. HEADING 34A DEGREE.

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-48-H-092-00001	JUN 69	092	PUERTO RICO	98	KA-62C, 58, 2402, 3 IV. CHECKOUT EXPOSURES  C + D MALFUNCTIONING C + D MALFUNCTIONING C + D MALFUNCTIONING
	ROLL 1	EXPOSURE NUMBERS	ALTITUDE		
	1	231 - 233	20,200 MSL		
	1	237 - 251	20,200 MSL		
	1	253 - 254	20,200 MSL		
VR-48-H-092-00002	JUN 69	092	PUERTO RICO	98	KA-62C, 58, 2402, 3 IV. 50 PER CENT CLOUDS
	ROLL 1	EXPOSURE NUMBERS	ALTITUDE		
	1	331 - 333	20,000 MSL		
	1	336 - 347	20,000 MSL		
	1	350 - 429	5,000 MSL		
VR-48-H-092-00003	JUN 69	092	PUERTO RICO	98	KA-62C, 58, 2402, 3 IV.
	ROLL 1	EXPOSURE NUMBERS	ALTITUDE		
	1	435 - 448	5,000 MSL		
	1	449 - 472	5,000 MSL		
	1	475 - 484	5,000 MSL		
VR-48-H-092-00004	JUN 69	092	PUERTO RICO	98	KA-62C, 58, 2402, 3 IV.
	ROLL 1	EXPOSURE NUMBERS	ALTITUDE		
	1	506 - 520	20,000 MSL		
	1	522 - 550	20,000 MSL		
	1	552 - 575	20,000 MSL		
VR-48-JG-192-00005	JUN 69	192	BARBADOS	98	KA-62C, 58, 2402, 3 IV. NO IMAGERY AVAILABLE (MALFUNCTION)
	ROLL 1	EXPOSURE NUMBERS	ALTITUDE		
	1	603 - 657	5,000 MSL		
VR-48-EK-039-00006	AUG 69	039	EASTERN BEAR TOOTH MOUNTAINS	102	KA-62C, 58, 2402, 3 IV. MAG. HEADING 304 DEGREE. MAG. HEADING 129 DEGREE. MAG. HEADING 120 DEGREE. MAG. HEADING 234 DEGREE.
	ROLL 1	EXPOSURE NUMBERS	ALTITUDE		
	1	0483 - 0509	6,500 MSL		
	1	0510 - 0535	6,500 MSL		
	1	0536 - 0556	6,500 MSL		

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-48-EJ-186-00007	AUG 69	186	CLARKS FORK, WYOMING		KA62-C, 58, 240°, 3 IV.
VR-48-EK-197-00008	AUG 69	197	CHIPPEWA NATIONAL FOREST	102	KA-62C, 58, 240°, 3 IV.
VR-48-EJ-085-00009	AUG 69	085	LAWRENCE, KANSAS	102	KA-62C, 48, 240°, 3 IV.
VR-48-EJ-076-00010	SEP 69	076	GARDEN CITY, KANSAS	102	KA-62C, 57, 240°, 3 IV.



IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-49-4H-092-00001 21	JUN 69	092	PUERTO RICO	98	KA-62D, 89B, 50246, 3 IN. CHECKOUT EXPOSURES
VR-49-4H-092-00002 23	JUN 69	092	PUERTO RICO	98	KA-62D, 89B, 50246, 3 IN. 50 PER CENT CLOUDS
VR-49-4H-092-00003 24	JUN 69	092	PUERTO RICO	98	KA-62D, 89B, 50246, 3 IN. REMARKS
VR-49-4H-092-00004 25	JUN 69	092	PUERTO RICO	98	KA-62D, 89B, 50246, 3 IN. REMARKS
VR-49-J6-192-00005 27	JUN 69	192	BARBADOS	98	KA-62D, 89B, 50246, 3 IN. REMARKS

SCALE  
1.80,000  
1.80,000  
1.80,000  
1.80,000

ALTITUDE  
20,200 MSL  
20,200 MSL  
20,200 MSL  
20,200 MSL

ALL CAMERAS MALFUNCTIONING  
C+D MALFUNCTIONING  
C+D MALFUNCTIONING  
C+D MALFUNCTIONING

SCALE  
1.80,000  
1.80,000  
1.20,000

ALTITUDE  
20,000 MSL  
20,000 MSL  
5,000 MSL

SCALE  
1.20,000  
1.20,000  
1.20,000  
1.20,000  
1.80,000

ALTITUDE  
5,000 MSL  
5,000 MSL  
5,000 MSL  
20,000 MSL

SCALE  
1.80,000  
1.80,000  
1.80,000  
1.80,000  
1.20,000

ALTITUDE  
20,000 MSL  
20,000 MSL  
20,000 MSL  
5,000 MSL

TEST + CHECKOUT  
TEST

ALTITUDE  
3,000 MSL  
3,000 MSL

KA-62D FRAME 552 - DOUBLE EXPOSURE

1.80,000

15,000 MSL  
15,000 MSL  
15,000 MSL

IMAGERY DATA FILE

ACCESSION NUMBER	DATE	SITE NO.	SITE NAME	MIS- SION	INSTRUMENT CONFIGURATION
VR-49-EK-039-00006 27	AUG 69	039	EASTERN BEAR TOOTH MOUNTAINS	102	KA-62D, 89B, SO-246, 3 IN.
VR-49-EJ-186-00007 27	AUG 69	186	CLARKS FORK, WYOMING	102	KA-62D, 89B, SO-246, 3 IN.
VR-49-EK-197-00008 26	AUG 69	197	CHIPPEWA NATIONAL FOREST	102	KA-62D, 89B, SO-246, 3 IN.
VR-49-EJ-085-00009 28	AUG 69	085	LAWRENCE, KANSAS	102	KA-62D, 89B, SO-246, 3 IN.
VR-49-EJ-076-00010 04	SEP 69	076	GARDEN CITY, KANSAS	102	KA-62D, 89B, SO-246, 3 IN.

**SECTION 50 - GEMINI FILM DATA FILE**

## GEMINI FILM DATA FILE

ACCESSION NUMBER	DESCRIPTION
NR-50-30-000-00001	GEMINI 111, MARCH 23, 1965, 70 MM PHOTOGRAPHY, HASSELBLAD MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 1, FRAMES 1-25, POSITIVE TRANSPARENCY.
NR-50-30-000-00002	GEMINI 1V, JUNE 3-7, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 16, FRAMES 1-53. POSITIVE TRANSPARENCY.
NR-50-30-000-00003	GEMINI 1V, JUNE 3-7, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 7, FRAMES 1-56. POSITIVE TRANSPARENCY.
NR-50-30-000-00004	GEMINI 1V, JUNE 3-7, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 6, FRAMES 1-12. POSITIVE TRANSPARENCY.
NR-50-30-000-00005	GEMINI 1V, JUNE 3-7, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 8, FRAMES 1-55. POSITIVE TRANSPARENCY.
NR-50-30-000-00006	GEMINI 1V, JUNE 3-7, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 9, FRAMES 1-43. POSITIVE TRANSPARENCY.
NR-50-30-000-00007	GEMINI V, AUGUST 21-29, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 1, FRAMES 1-62. POSITIVE TRANSPARENCY.
NR-50-30-000-00008	GEMINI V, AUGUST 21-29, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 2, FRAMES 1-56. POSITIVE TRANSPARENCY.
NR-50-30-000-00009	GEMINI V, AUGUST 21-29, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 3, FRAMES 1-63. POSITIVE TRANSPARENCY.
NR-50-30-000-00010	GEMINI V, AUGUST 21-29, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 4, FRAMES 1-69. POSITIVE TRANSPARENCY.
NR-50-30-000-00011	GEMINI VI, DECEMBER 15-16, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD MODEL 500 (NASA MODIFIED). MAGAZINE A, FRAMES 1-62. POSITIVE TRANSPARENCY.

## GEMINI FILM DATA FILE

ACCESSION NUMBER	DESCRIPTION
VR-50-00-000-00012	GEMINI VI, DECEMBER 15-16, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD MODEL 500 (NASA MODIFIED). MAGAZINE B, FRAMES 1-62. POSITIVE TRANSPARENCY.
VR-50-00-000-00013	GEMINI VI, DECEMBER 15-16, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD MODEL 500 (NASA MODIFIED). MAGAZINE C, FRAMES 1-56. POSITIVE TRANSPARENCY.
VR-50-00-000-00014	GEMINI VI, DECEMBER 15-16, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD MODEL 500 (NASA MODIFIED). MAGAZINE D, FRAMES 1-12. POSITIVE TRANSPARENCY.
VR-50-00-000-00015	GEMINI VII, DECEMBER 4-18, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500-C (NASA MODIFIED). MAGAZINE NO. 22 (A), FRAMES 1-52. POSITIVE TRANSPARENCY.
VR-50-00-000-00016	GEMINI VII, DECEMBER 4-18, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500-C (NASA MODIFIED). MAGAZINE NO. 17 (M), FRAMES 1-59. POSITIVE TRANSPARENCY.
VR-50-00-000-00017	GEMINI VII, DECEMBER 4-18, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500-C (NASA MODIFIED). MAGAZINE NO. 24 (C), FRAMES 1-61. POSITIVE TRANSPARENCY.
VR-50-00-000-00018	GEMINI VII, DECEMBER 4-18, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500-C (NASA MODIFIED). MAGAZINE NO. 25 (D), FRAMES 1-62. POSITIVE TRANSPARENCY.
VR-50-00-000-00019	GEMINI VII, DECEMBER 4-18, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500-C (NASA MODIFIED). MAGAZINE NO. 13 (K), FRAMES 1-42. POSITIVE TRANSPARENCY.
VR-50-00-000-00020	GEMINI VII, DECEMBER 4-18, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500-C (NASA MODIFIED). MAGAZINE NO. 23 (B), FRAMES 1-60. POSITIVE TRANSPARENCY.
VR-50-00-000-00021	GEMINI VII, DECEMBER 4-18, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500-C (NASA MODIFIED). MAGAZINE NO. 30 (G) (EXPOSED AND PROCESSED AT ASA 500), FRAMES 1-62. POSITIVE TRANSPARENCY.
VR-50-00-000-00022	GEMINI VII, DECEMBER 4-18, 1965, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500-C (NASA MODIFIED). MAGAZINE NO. 26 (E) (INFRARED EKTACHROME FILM TYPE 8443), FRAMES 1-31. POSITIVE TRANSPARENCY.

## GEMINI FILM DATA FILE

ACCESSION NUMBER	DESCRIPTION
NR-50-30-000-00023	GEMINI VIII, MARCH 16, 1966, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500-C (NASA MODIFIED). MAGAZINE NO. 20, FRAMES 1-19, POSITIVE TRANSPARENCY.
NR-50-30-000-00024	GEMINI IX, JUNE 3-6, 1966, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500 C (NASA MODIFIED). MAGAZINE NO. A (SN-7), FRAMES 1-67. POSITIVE TRANSPARENCY.
NR-50-30-000-00025	GEMINI IX, JUNE 3-6, 1966, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500 C (NASA MODIFIED). MAGAZINE NO. 3 (SN-8), FRAMES 1-64. POSITIVE TRANSPARENCY.
NR-50-30-000-00026	GEMINI IX, JUNE 3-6, 1966, 70 MM PHOTOGRAPHY. HASSELBLAD, MODEL 500 C (NASA MODIFIED). MAGAZINE NO. C, FRAMES 1-70. POSITIVE TRANSPARENCY.
NR-50-30-000-00027	GEMINI IX, JUNE 3-6, 1966, 70 MM PHOTOGRAPHY. HASSELBLAD, SUPER WIDE ANGLE-C (NASA MODIFIED). MAGAZINE NO. D (SN-2), FRAMES 1-58. POSITIVE TRANSPARENCY.
NR-50-30-000-00028	GEMINI IX, JUNE 3-6, 1966, 70 MM PHOTOGRAPHY. J.A. MAURER-70 SPACE CAMERA. MAGAZINE NO. F (SN-011), FRAMES 1-52, POSITIVE TRANSPARENCY.
NR-50-30-000-00029	GEMINI IX, JUNE 3-6, 1966, 70 MM PHOTOGRAPHY. J.A. MAURER-70 SPACE CAMERA. MAGAZINE NO. G (SN-012), FRAMES 1-51, POSITIVE TRANSPARENCY.
NR-50-30-000-00030	GEMINI X, JULY 18-21, 1966, 70 MM PHOTOGRAPHY. HASSELBLAD, SUPER WIDE ANGLE. MAGAZINE NO. 5, FRAMES 1-62, POSITIVE TRANSPARENCY.
NR-50-30-000-00031	GEMINI X, JULY 18-21, 1966, 70 MM PHOTOGRAPHY. J.A. MAURER, 70MM SPACE CAMERA. MAGAZINE NO. 10, FRAMES 1-50, POSITIVE TRANSPARENCY.
NR-50-30-000-00032	GEMINI X, JULY 18-21, 1966, 70 MM PHOTOGRAPHY. J.A. MAURER, 70MM SPACE CAMERA. MAGAZINE NO. 11, FRAMES 1-47, POSITIVE TRANSPARENCY.
NR-50-30-000-00033	GEMINI X, JULY 18-21, 1966, 70 MM PHOTOGRAPHY. J.A. MAURER, 70MM SPACE CAMERA. MAGAZINE NO. 12, FRAMES 1-48, POSITIVE TRANSPARENCY.
NR-50-30-000-00034	GEMINI X, JULY 18-21, 1966, 70 MM PHOTOGRAPHY. J.A. MAURER, 70MM SPACE CAMERA. MAGAZINE NO. 13, FRAMES 1-47, POSITIVE TRANSPARENCY.

## GEMINI FILM DATA FILE

ACCESSION NUMBER	DESCRIPTION
NR-50-30-000-00035	GEMINI X, JULY 18-21, 1966, 70 MM PHOTOGRAPHY, J.A. MAURER, 70MM SPACE CAMERA, MAGAZINE NO. 14, FRAMES 1-49, POSITIVE TRANSPARENCY.
NR-50-30-000-00036	GEMINI X, JULY 18-21, 1966, 70 MM PHOTOGRAPHY, HASSELBLAD, SUPER WIDE ANGLE, MAGAZINE NO. 28, FRAMES 1-68, POSITIVE TRANSPARENCY.
NR-50-30-000-00037	GEMINI X1, SEPTEMBER 12-15, 1966, 70 MM PHOTOGRAPHY, HASSELBLAD, SUPER WIDE ANGLE, MAGAZINE NO. 8, FRAMES 1-63, POSITIVE TRANSPARENCY.
NR-50-30-000-00038	GEMINI X1, SEPTEMBER 12-15, 1966, 70 MM PHOTOGRAPHY, HASSELBLAD, SUPER WIDE ANGLE, MAGAZINE NO. 9, FRAMES 1-67, POSITIVE TRANSPARENCY.
NR-50-30-000-00039	GEMINI X1, SEPTEMBER 12-15, 1966, 70 MM PHOTOGRAPHY, J.A. MAURER, 70MM SPACE CAMERA, MAGAZINE NO. 10, FRAMES 1-49, POSITIVE TRANSPARENCY.
NR-50-30-000-00040	GEMINI X1, SEPTEMBER 12-15, 1966, 70 MM PHOTOGRAPHY, J.A. MAURER, 70MM SPACE CAMERA, MAGAZINE NO. 11, FRAMES 1-43, POSITIVE TRANSPARENCY.
NR-50-30-000-00041	GEMINI X1, SEPTEMBER 12-15, 1966, 70 MM PHOTOGRAPHY, J.A. MAURER, 70MM SPACE CAMERA, MAGAZINE NO. 12, FRAMES 1-16, POSITIVE TRANSPARENCY.
NR-50-30-000-00042	GEMINI X11, NOVEMBER 11-15, 1966, 70 MM PHOTOGRAPHY, HASSELBLAD, SUPER WIDE ANGLE, MAGAZINE NO. 8, FRAMES 1-150, POSITIVE TRANSPARENCY.
NR-50-30-000-00043	GEMINI X11, NOVEMBER 11-15, 1966, 70 MM PHOTOGRAPHY, HASSELBLAD, SUPER WIDE ANGLE, MAGAZINE NO. 11, FRAMES 1-147, POSITIVE TRANSPARENCY.
NR-50-30-000-00044	GEMINI X11, NOVEMBER 11-15, 1966, 70 MM PHOTOGRAPHY, J.A. MAURER, 70MM SPACE CAMERA, MAGAZINE NO. 10, FRAMES 1-48, POSITIVE TRANSPARENCY.
NR-50-30-000-00045	GEMINI X11, NOVEMBER 11-15, 1966, 70 MM PHOTOGRAPHY, HASSELBLAD, SUPER WIDE ANGLE, MAGAZINE NO. 17, FRAMES 1-70, POSITIVE TRANSPARENCY.

**SECTION 51 - APOLLO FILM DATA FILE**

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## APOLLO FILM DATA FILE

ACCESSION NUMBER	DESCRIPTION
NR-51-00-000-00001	APOLLO 6, APRIL 4, 1968, 70 MM PHOTOGRAPHY. MAURER, MODEL 220 G. FRAMES AS6-2-756 THRU AS6-2-1510. POSITIVE TRANSPARENCY.
NR-51-00-000-00002	APOLLO 7, OCTOBER 11-22, 1968, 70 MM PHOTOGRAPHY. HASSELBLAD 500-C, NASA MODIFIED. MAGAZINE NO. M, FRAMES AS7-3-1511 TO 1557. POSITIVE TRANSPARENCY.
NR-51-00-000-00003	APOLLO 7, OCTOBER 11-22, 1968, 70 MM PHOTOGRAPHY. HASSELBLAD 500-C, NASA MODIFIED. MAGAZINE NO. N, FRAMES AS7-4-1558 TO 1612. POSITIVE TRANSPARENCY.
NR-51-00-000-00004	APOLLO 7, OCTOBER 11-22, 1968, 70 MM PHOTOGRAPHY. HASSELBLAD 500-C, NASA MODIFIED. MAGAZINE NO. O, FRAMES AS7-5-1613 TO 1671. POSITIVE TRANSPARENCY.
NR-51-00-000-00005	APOLLO 7, OCTOBER 11-22, 1968, 70 MM PHOTOGRAPHY. HASSELBLAD 500-C, NASA MODIFIED. MAGAZINE NO. O, FRAMES AS7-6-1672 TO 1737. POSITIVE TRANSPARENCY.
NR-51-00-000-00006	APOLLO 7, OCTOBER 11-22, 1968, 70 MM PHOTOGRAPHY. HASSELBLAD 500-C, NASA MODIFIED. MAGAZINE NO. S, FRAMES AS7-7-1738 TO 1879. POSITIVE TRANSPARENCY.
NR-51-00-000-00007	APOLLO 7, OCTOBER 11-22, 1968, 70 MM PHOTOGRAPHY. HASSELBLAD 500-C, NASA MODIFIED. MAGAZINE NO. R, FRAMES AS7-8-1880 TO 1943. POSITIVE TRANSPARENCY.
NR-51-00-000-00008	APOLLO 7, OCTOBER 11-22, 1968, 70MM PHOTOGRAPHY. HASSELBLAD 500-C, NASA MODIFIED. MAGAZINE NO. P, FRAMES AS7-11-1980 TO 2043. POSITIVE TRANSPARENCY.
NR-51-00-000-00009	APOLLO 8, DECEMBER 21, 1968, 70 MM PHOTOGRAPHY. HASSELBLAD. MAGAZINE A, FRAMES AS8-16-2581 TO 2619. POSITIVE TRANSPARENCY.
NR-51-00-000-00010	APOLLO 8, DECEMBER 21, 1968, 70 MM PHOTOGRAPHY. HASSELBLAD. MAGAZINE B, FRAMES AS8-14-2383 TO 2534. POSITIVE TRANSPARENCY.
NR-51-00-000-00011	APOLLO 8, DECEMBER 21, 1968, 70 MM PHOTOGRAPHY. HASSELBLAD. MAGAZINE C, FRAMES AS8-17-2659 TO 2827. POSITIVE TRANSPARENCY.

## APOLLO FILM DATA FILE

ACCESSION NUMBER	DESCRIPTION
VR-51-30-000-00012	APOLLO 8, DECEMBER 21, 1968, 70 MM PHOTOGRAPHY, HASSELBLAD, MAGAZINE D, FRAMES AS8-12-2044 TO 2214, POSITIVE TRANSPARENCY.
VR-51-30-000-00013	APOLLO 8, DECEMBER 21, 1968, 70 MM PHOTOGRAPHY, HASSELBLAD, MAGAZINE E, FRAMES AS8-13-2215 TO 2382, POSITIVE TRANSPARENCY.
VR-51-30-000-00014	APOLLO 8, DECEMBER 21, 1968, 70 MM PHOTOGRAPHY, HASSELBLAD, MAGAZINE F, FRAMES AS8-15-2535 TO 2580, POSITIVE TRANSPARENCY.
VR-51-30-000-00015	APOLLO 8, DECEMBER 21, 1968, 70 MM PHOTOGRAPHY, HASSELBLAD, MAGAZINE G, FRAMES AS8-18-2828 TO 2908, POSITIVE TRANSPARENCY.
VR-51-30-000-00016	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, HANDHELD, MAGAZINE NO. 19, FRAMES 2909 TO 3034, POSITIVE TRANSPARENCY.
VR-51-30-000-00017	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, HANDHELD, MAGAZINE NO. 20, FRAMES 3053 TO 3177, POSITIVE TRANSPARENCY.
VR-51-30-000-00018	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, HANDHELD, MAGAZINE NO. 21, FRAMES 3178 TO 3322, POSITIVE TRANSPARENCY.
VR-51-30-000-00019	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, HANDHELD, MAGAZINE NO. 22, FRAMES 3324 TO 3474, POSITIVE TRANSPARENCY.
VR-51-30-000-00020	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, HANDHELD, MAGAZINE NO. 23, FRAMES 3475 TO 3619, POSITIVE TRANSPARENCY.
VR-51-30-000-00021	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, HANDHELD, MAGAZINE NO. 24, FRAMES 3620 TO 3681, POSITIVE TRANSPARENCY.
VR-51-30-000-00022	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, HANDHELD, MAGAZINE NO. 25, FRAMES 3682 TO 3695, POSITIVE TRANSPARENCY.
VR-51-30-000-00023	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, SO-65 MULTISPECTRAL, MAGAZINE 26, FRAMES 3696A TO 3834A, POSITIVE TRANSPARENCY.

APOLLO FILM DATA FILE

ACCESSION NUMBER	DESCRIPTION
NR-51-00-000-00024	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, SO-65 MULTISPECTRAL, MAGAZINE 26, FRAMES 3696B TO 3854B, POSITIVE TRANSPARENCY.
NR-51-00-000-00025	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, SO-65 MULTISPECTRAL, MAGAZINE 26, FRAMES 3696C TO 3823C, POSITIVE TRANSPARENCY.
NR-51-00-000-00026	APOLLO 9, MARCH 3-13, 1969, 70 MM PHOTOGRAPHY, SO-65 MULTISPECTRAL, MAGAZINE 26, FRAMES 3696D TO 3854D, POSITIVE TRANSPARENCY.

**PART IV - ELECTRONIC DATA**

## **SECTION 76 - PROCESSED ELECTRONIC DATA**

PROCESSED ELECTRONIC DATA

ACCESSION NUMBER	DATE	DATA SOURCE	MEDIUM	TYPE	REEL NO.	REMARKS
VR-76-4J-086-00225	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 4 RUN 4 FORE
VR-76-4J-086-00226	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 4 RUN 4 AFT
VR-76-4J-086-00227	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 4 RUN 2 FORE
VR-76-4J-086-00228	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 4 RUN 2 AFT
VR-76-4J-086-00229	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 4 RUN 1 FORE
VR-76-4J-086-00230	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 4 RUN 1 AFT
VR-76-4J-086-00231	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 2 RUN 3 FORE
VR-76-4J-086-00232	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 2 RUN 3 AFT
VR-76-4J-086-00233	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 1 RUN 2 FORE
VR-76-4J-086-00234	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 1 RUN 2 AFT
VR-76-4J-086-00235	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 1 RUN 3 FORE
VR-76-4J-086-00236	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 2 RUN 2 AFT
VR-76-4J-086-00237	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 1 RUN 1 AFT
VR-76-4J-998-00238	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 1 RUN 1 FORE SITE 002 FLT 3 LINE 1 RUN 3 AFT SITE 002 BELONGS TO MISSION 021
VR-76-3J-101-00239	5 APR 66	MISSION 021	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 101 FLT 2 LINE 91 RUN 1 FORE

PROCESSED ELECTRONIC DATA

ACCESSION NUMBER	DATE	DATA SOURCE	MEDIUM	TYPE	REEL NO.	REMARKS
VR-75-EJ-998-00240	5 MAR 66	MISSION 021	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 101 FLT 2 LINE 91 RUN 1 FORE + AFT MISSION 033 SITE 114 FLT 1 LINE 3 RUN 1 FORE + AFT
VR-75-4J-006-00333	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 1 RUN 3 AFT
VR-75-4J-086-00334	7 MAR 66	MISSION 020	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 086 FLT 2 LINE 2 RUN 2 FORE
VR-76-EJ-998-00335	2 APR 66	MISSION 021	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 002 FLT 5 LINE 1 RUN 3 AFT SITE 101 FLT 2 LINE 91 RUN 1 FORE + AFT SITE 000 FLT 1 LINE 91 RUN 1 FORE + AFT
VR-76-EJ-998-00336	5 APR 66	MISSION 021	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 002 FLT 5 LINE 1 RUN 3 FORE + AFT SITE 101 FLT 2 LINE 91 RUN 1 FORE + AFT SITE 101 FLT 2 LINE 91 RUN 3 FORE SITE 101 DATA 2 APR 66 MISSION 020 SITE 086 FLT 2 LINE 1 RUN 3 FORE
VR-75-4J-138-00337	10 DEC 66	MISSION 034	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 138 FLT 2 LINE 1 RUN 3 F+A REG. 134,135 SITE 138 FLT 2 LINE 1 RUN 4 F+A REG. 132,133
VR-76-EJ-114-00338	20 APR 67	MISSION 039	MICROFILM	35 MM		RADAR REFLECTIVITY SITE 114 FLT 1 LINE 92 RUN 3 F+A REG. 139,140 SITE 114 FLT 1 LINE 93 RUN 3 F+A REG. 153,154 SITE 114 FLT 1 LINE 94 RUN 4 F+A REG. 150,151 SITE 114 FLT 1 LINE 94 RUN 4 F+A
VR-76-EJ-114-00339	20 APR 67	MISSION 039	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 114 FLT 1 LINE 91 RUN 3 F+A REG. 168,169 SITE 114 FLT 1 LINE 91-92 RUN 3 AFT REG. 171,172 SITE 114 FLT 1 LINE 94 RUN 1 AFT REG. 173 SITE 114 FLT 2 LINE 96 RUN 2 F+A REG. 158,159 SITE 114 FLT 2 LINE 97 RUN 3 F+A REG. 161-164
VR-76-EJ-101-00340	5 JUN 67	MISSION 043	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 101 FLT 4 LINE 91 RUN 1 F+A REG. 184,185 SITE 101 FLT 4 LINE 92 RUN 2 FORE REG. 181 SITE 101 FLT 4 LINE 93 RUN 2 F+A REG. 187,188 SITE 101 FLT 4 LINE 92 RUN 91 TEST REG. 180
VR-76-EJ-998-00341	23 JUN 67	MISSION 044	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 002 FLT 4 LINE 1 RUN 1 FORE + AFT SITE 051 FLT 3 LINE 1 RUN 2 F+A + TEST SITE 051 FLT 3 LINE 1 RUN 3 F+A + TEST SITE 159 FLT 4 LINE 93 RUN 1 F+A REG. 178,179 SITE 154 FLT 4 LINE 1 RUN 2 F+A REG. 175,176 SITE 154 FLT 4 LINE 1 RUN 2 TEST REG. 174

PROCESSED ELECTRONIC DATA

ACCESSION NUMBER	DATE	DATA SOURCE	MEDIUM	TYPE	REEL NO.	REMARKS
VR-76-FJ-076-00443	19 SEP 66	MISSION 032	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 076 FLT 1 LINE 4 RUN 1 F+A REG. 19M,199
VR-76-FJ-076-00444	19 SEP 66	MISSION 032	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 076 FLT 1 LINE 2 RUN 1 F+A REG. 201,204
VR-76-IJ-138-00445	10 DEC 66	MISSION 034	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 138 FLT 2 LINE 1 RUN 5 F+A REG. 22A
VR-76-IJ-138-00446	10 DEC 66	MISSION 034	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 138 FLT 2 LINE 2 RUN 2 F+A REG. 227
VR-76-IJ-138-00447	10 DEC 66	MISSION 034	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 138 FLT 2 LINE 2 RUN 3 F+A REG. 22M
VR-76-IJ-138-00448	10 DEC 66	MISSION 034	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 138 FLT 2 LINE 2 RUN 4 F+A REG. 229
VR-76-FJ-076-00449	19 SEP 66	MISSION 032	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 076 FLT 1 LINE 91 RUN 1 F+A REG. 200,201
VR-76-FJ-076-00450	19 SEP 66	MISSION 032	MICROFILM	35 MM		RADAR REFLECTIVITY SITE 076 FLT 1 LINE 3 RUN 1 F+A REG. 20M,206
VR-76-FJ-076-00451	19 SEP 66	MISSION 032	MICROFILM	35 MM		RADAR REFLECTIVITY SITE 076 FLT 1 LINE 1 RUN 1 F+A REG. 20M,209
VR-76-CL-143-00453	11 SEP 67	MISSION 047	MICROFILM	35 MM		RADAR REFLECTIVITY SITE 143 FLT 5 LINE 92 RUN 2 F+A REG. 217,218
VR-76-CL-143-00454	11 SEP 67	MISSION 047	MICROFILM	35 MM		RADAR REFLECTIVITY SITE 143 FLT 6 LINE 94 RUN 1 F+A REG. 217,220
VR-76-CL-143-00455	11 SEP 67	MISSION 047	MICROFILM	35 MM		RADAR REFLECTIVITY SITE 143 FLT 3 LINE 91 RUN 1 FORE REG. 221
VR-76-CL-143-00456	11 SEP 67	MISSION 047	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 143 FLT 3 LINE 91 RUN 1 AFT REG. 222
VR-76-EJ-051-00457	11 SEP 67	MISSION 044	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 051 FLT 1 LINE 1 RUN 1 F+A REG. 224
VR-76-EJ-051-00458	11 SEP 67	MISSION 044	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 051 FLT 1 LINE 1 RUN 2 F+A REG. 22M



PROCESSED ELECTRONIC DATA

ACCESSION NUMBER	DATE	DATA SOURCE	MEDIUM	TYPE	REEL NO.	REMARKS
VR-76-EJ-114-00459	11 SEP 67	MISSION 039	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY SITE 114 FLT 2 LINE 95 RUN 1 F+A REQ. 525,526
VR-76-EJ-114-00460	11 SEP 67	MISSION 039	MICROFILM	35 MM	1 OF 1	LAVIC RADAR REFLECTIVITY SITE 114 FLT 2 LINE 97 RUN 3 F+A RE 527,528
VR-76-30-000-00472	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 6 L. 2 RUN 1 FLT 6 LINE 17 RUN 1 FLT 6 LINE 17 JN 2
VR-76-EJ-019-00479	9 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SITE 019 FLT 6 LINES 11,12,13,17,20, 25
VR-76-EJ-019-00480	8 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SITE 019 FLT 6 LINES 19,20,79,81,83
VR-76-EJ-019-00481	9 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SITE 019 FLT 6 LINES 15,16,19 RUN 1 SITE 019 FLT 6 LINES 20,25 RUN 1
VR-76-EJ-019-00482	9 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SITE 019 FLT 6 LINES 45-51
VR-76-EJ-019-00483	8 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SITE 019 FLT 6 LINES 71,76,81,83
VR-76-30-000-00495	15 NOV 67	MISSION 023	MICROFILM	35 MM	1 OF 1	RC-8 ROLL 1 ORIGINAL NEG.
VR-76-30-000-00496	15 NOV 67	MISSION 023	MICROFILM	35 MM	1 OF 1	RC-8 ROLL 2 ORIGINAL NEG.
VR-76-30-000-00497	15 NOV 67	MISSION 023	MICROFILM	35 MM	1 OF 1	RC-8 ROLL 3 ORIGINAL NEG.
VR-76-30-000-00498	15 NOV 67	MISSION 023	MICROFILM	35 MM	1 OF 1	RC-8 ROLL 4 ORIGINAL NEG.
VR-76-30-000-00499	15 NOV 67	MISSION 023	MICROFILM	35 MM	1 OF 1	RC-8 ROLL 5 ORIGINAL NEG.
VR-76-30-000-00500	15 NOV 67	MISSION 023	MICROFILM	35 MM		RC-8 ROLL 6 ORIGINAL NEG.
VR-76-30-000-00501	15 NOV 67	MISSION 023	MICROFILM	35 MM		RC-8 ROLL 8 ORIGINAL NEG.
VR-76-30-000-00502	15 NOV 67	MISSION 023	MICROFILM	35 MM		RC-8 ROLL 9 ORIGINAL NEG.
VR-76-30-000-00503	15 NOV 67	MISSION 023	MICROFILM	35 MM		RC-8 ROLL 10 ORIGINAL NEG.
VR-76-30-000-00504	15 NOV 67	MISSION 023	MICROFILM	35 MM		RC-8 ROLL 11 ORIGINAL NEG.
VR-76-30-000-00505	15 NOV 67	MISSION 024	MICROFILM	35 MM		RC-8 ORIGINAL NEG.
VR-76-30-000-00506	15 NOV 67	MISSION 024	MICROFILM	35 MM		RC-8 ORIGINAL NEG. 21 INCH PULLDOWN

PROCESSED ELECTRONIC DATA

ACCESSION NUMBER	DATE	DATA SOURCE	MEDIUM	TYPE	REEL NO.	REMARKS
VR-75-GJ-046-00510	18 NOV 67	MISSION 023	MICROFILM	16 MM		MICROWAVE RADIOMETER S/C SITE 046
VR-75-J0-000-00511	18 NOV 67	MISSION 029	MICROFILM	16 MM		MICROWAVE RADIOMETER S/C
VR-75-J0-000-00512	18 NOV 67	MISSION 030	MICROFILM	16 MM		MICROWAVE RADIOMETER S/C
VR-75-J0-000-00513	18 NOV 67	MISSION 038	MICROFILM	16 MM		MICROWAVE RADIOMETER S/C
VR-75-J0-000-00514	18 NOV 67	MISSION 040	MICROFILM	16 MM		MICROWAVE RADIOMETER S/C
VR-75-JJ-086-00575	23 JAN 67	MISSION 038	MICROFILM	35 MM		FORE + AFT SITE 086 FLIGHT 2 LINE 92 RUN 6 REQ 246
VR-75-JJ-086-00576	15 DEC 67	MISSION 038	MICROFILM	35 MM		FORE + AFT SITE 086 FLIGHT 4 LINE 93 RUN 3 REQ 248
VR-75-JJ-086-00577	15 DEC 67	MISSION 038	MICROFILM	35 MM		FORE + AFT SITE 086 FLIGHT 4 LINE 91 RUN 1 REQ 247
VR-76-JJ-086-00578	15 DEC 67	MISSION 038	MICROFILM	35 MM		FORE + AFT SITE 086 FLIGHT 4 LINE 93 RUN 4 REQ 249
VR-76-JJ-086-00579	15 DEC 67	MISSION 038	MICROFILM	35 MM		FORE + AFT SITE 086 FLIGHT 2 LINE 92 RUN 4 REQ 245
VR-76-J0-000-00605	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 6 LINE 2
VR-76-J0-000-00606	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 6 LINE 253,254
VR-76-J0-000-00607	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 6 LINE 42,43,44
VR-76-J0-000-00608	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 6 LINE 41,52,55
VR-76-J0-000-00609	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 11,12,13
VR-76-J0-000-00610	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 10,14 RUN 1,2
VR-76-J0-000-00611	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 41 RUN 9-13
VR-76-J0-000-00612	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 29,30,41 RUN 1-3
VR-76-J0-000-00613	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 41 RUN 4-8
VR-76-J0-000-00614	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 41,42 RUN 1,14,15

PROCESSED ELECTRONIC DATA

ACCESSION NUMBER	DATE	DATA SOURCE	MEDIUM	TYPE	REEL NO.	REMARKS
VR-76-J0-000-00615	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 18-21 RUN 1
VR-76-J0-000-00616	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 22-24 RUN 1
VR-76-J0-000-00617	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 10 RUN 2
VR-76-J0-000-00618	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 10 RUN 1
VR-76-J0-000-00619	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 15-17 RUN 1
VR-76-J0-000-00620	24 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED FLT 5 LINE 25-28 RUN 1
VR-76-J0-000-00621	27 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 6 LINE 12,17,19,253,254 RUN 1
VR-76-J0-000-00654	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 10 RUN 1
VR-76-J0-000-00655	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 10 RUN 2
VR-76-J0-000-00656	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 10,14 RUN 2,1
VR-76-J0-000-00657	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 15-17 RUN 1
VR-76-J0-000-00658	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 18-21 RUN 1
VR-76-J0-000-00659	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 22-24 RUN 1
VR-76-J0-000-00660	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 25-28 RUN 1
VR-76-J0-000-00661	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 29,30,41 RUN 1-3
VR-76-J0-000-00662	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 41 RUN 4-8
VR-76-J0-000-00663	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 41 RUN 9-13
VR-76-J0-000-00664	4 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 5 LINE 41,42 RUN 14, 15,1
VR-76-J0-000-00665	20 FEB 68	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED SMOOTHED FLT 6 BLACK BODY AND POLY. CALS.
VR-76-4J-086-00680	30 JAN 68	MISSION 038	MICROFILM	35 MM	1 OF 1	SITE /86 FLT 4 LINE 93 RUN 2 F+A REQ. 265
VR-76-JK-160-00733	4 APR 68	MISSION 060	MICROFILM	35 MM	1 OF 2	SITE 160 FLT 1 LINE 92 RUN 2 F+A REQ. 546

PROCESSED ELECTRONIC DATA

ACCESSION NUMBER	DATE	DATA SOURCE	MEDIUM	TYPE	REEL NO.	REMARKS
VR-76-JK-160-00734	4 APR 68	MISSION 060	MICROFILM	35 MM	2 OF 2	SITE 160 FLT 1 L' E 92 RUN 2 F+A REQ. 547
VR-76-L-166-00738	6 APR 68	MISSION 070	MICROFILM	35 MM	1 OF 1	SITE 166 FLT 3 LINE 10 RUN 1 F+A REQ. 633
VR-76-L-166-00739	6 APR 68	MISSION 070	MICROFILM	35 MM	1 OF 1	SITE 166 FLT 3 LINE 11 RUN 1 F+A REQ. 634
VR-76-L-166-00740	6 APR 68	MISSION 070	MICROFILM	35 MM	1 OF 1	SITE 166 FLT 3 LINE 12 RUN 1 F+A REQ. 635
VR-76-L-166-00741	6 APR 68	MISSION 070	MICROFILM	35 MM	1 OF 1	SITE 166 FLT 3 LINE 13 RUN 1 F+A REQ. 636
VR-76-L-166-00742	6 APR 68	MISSION 070	MICROFILM	35 MM	1 OF 1	SITE 166 FLT 4 LINE 21 RUN 1 F+A REQ. 640
VR-76-L-166-00743	6 APR 68	MISSION 070	MICROFILM	35 MM	1 OF 1	SITE 166 FLT 4 LINE 22 RUN 1 F+A REQ. 641
VR-76-L-166-00744	6 APR 68	MISSION 070	MICROFILM	35 MM	1 OF 1	SITE 166 FLT 4 LINE 23 RUN 1 F+A REQ. 642
VR-76-L-166-00745	6 APR 68	MISSION 070	MICROFILM	35 MM	1 OF 1	SITE 166 FLT 4 LINE 24 RUN 1 F+A REQ. 643
VR-76-J0-000-00753	8 DEC 67	MISSION 055	MICROFILM	35 MM		MICROWAVE FLIGHTS 5,6
VR-76-J0-000-00754	8 DEC 67	MISSION 057	MICROFILM	35 MM		MICROWAVE FLIGHTS 1,2,4,5
VR-76-J0-000-00755	8 DEC 67	MISSION 059	MICROFILM	35 MM		MICROWAVE FLIGHTS 7,8
VR-76-EJ-019-00773	8 DEC 67	MISSION 056	MICROFILM	35 MM		SMOOTHED SITE 019 FLT 6 LINE 2 RUN 1
VR-76-EJ-019-00774	8 DEC 67	MISSION 056	MICROFILM	35 MM		SMOOTHED SITE 019 FLT 6 LINE 15,16,19,20,25 RUN 1
VR-76-EJ-019-00775	8 DEC 67	MISSION 056	MICROFILM	35 MM		SMOOTHED SITE 019 FLT 6 LINE 42-44 RUN 1
VR-76-EJ-019-00776	8 DEC 67	MISSION 056	MICROFILM	35 MM		SMOOTHED SITE 019 FLT 6 LINE 45-51 RUN 1
VR-76-EJ-019-00777	8 DEC 67	MISSION 056	MICROFILM	35 MM		SMOOTHED SITE 019 FLT 6 LINE 41,52-55 RUN 1
VR-76-EJ-019-00778	8 DEC 67	MISSION 056	MICROFILM	35 MM		SMOOTHED SITE 019 FLT 6 LINE 11,12,15,17,20,21 RUN 2
VR-76-EJ-998-00783	20 JUN 67	MISSION 061	MICROFILM	35 MM	1 OF 1	GUIDANCE AND NAVIGATION DATA SITE 076 FLT 3 SITE 085 FLT 4 REQUEST 672-678
VR-76-J0-000-00820	10 JUN 68	MISSION 060	MICROFILM	35 MM	1 OF 1	MICROWAVE FLIGHT 1,2
VR-76-J0-000-00821	10 JUN 68	MISSION 060	MICROFILM	35 MM	1 OF 1	MICROWAVE FLIGHT 1,2,8

PROCESSED ELECTRONIC DATA

ACCESSION NUMBER	DATE	DATA SOURCE	MEDIUM	TYPE	REEL NO.	REMARKS
VR-76-30-000-00822	10 JUN 68	MISSION 060	MICROFILM	35 MM	1 OF 1	SCATTEROMETER/RVAN PLOTS F-4A FLIGHT 1,2
VR-76-30-128-00823	10 JUN 68	MISSION 066	MICROFILM	35 MM	1 OF 1	MICROWAVE SITE 128 FLIGHT 1,11
VR-76-30-000-00829	10 JUN 68	MISSION 040	MICROFILM	35 MM	1 OF 1	MICROWAVE FLIGHTS 1-3
VR-76-30-000-00830	27 JUN 68	MISSION 073	MICROFILM	35 MM	1 OF 1	MICROWAVE FLIGHT 1
VR-76-JK-160-00831	10 JUN 68	MISSION 060	MICROFILM	35 MM	1 OF 1	SITE 160 FLT 1,2 REQ, 684-717 PLOTS
VR-76-JK-160-00832	10 JUN 68	MISSION 060	MICROFILM	35 MM	1 OF 1	SITE 160 FLT 1,2 REQ, 684-717 LISTINGS
VR-76-30-000-00844	19 JUL 68	MISSION 076	MICROFILM	35 MM	1 OF 1	RADIOMETER STRIPCHART FLIGHTS 1-5
VR-76-30-000-00854	30 JUL 68	MISSION 077	MICROFILM	35 MM	1 OF 1	RADIOMETER STRIPCHART FLIGHT 2
VR-76-30-000-00855	10 JUN 68	MISSION 060	MICROFILM	35 MM	1 OF 1	FLIGHT 1 REQ, 486,689 50 KZ BANDWIDTH
VR-76-30-000-00856	22 APR 68	MISSION 070	MICROFILM	35 MM	1 OF 1	FLIGHT 3 REQ, 433,635 50 KZ BANDWIDTH
VR-76-SJ-167-00857	20 MAY 68	MISSION 072	MICROFILM	35 MM	1 OF 1	SITE 167 FLIGHT 3 REQUEST 761-764 ASQ 90
VR-76-30-032-00858	8 JUL 68	MISSION 075	MICROFILM	35 MM	1 OF 1	SITE 32 FLT 3 REQUEST 818-824 ASQ 90
VR-76-30-000-00859	16 JUL 68	MISSION 076	MICROFILM	35 MM	1 OF 1	REQUEST 789-813 ASQ 90
VR-76-30-000-00860	22 APR 68	MISSION 070	MICROFILM	35 MM	1 OF 1	FLIGHT 3 REQUEST 633-636 FILTER ONLINE
VR-76-30-000-00869	8 JUL 68	MISSION 075	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY REQUEST 824,861,862
VR-76-30-000-00870	20 JUN 67	MISSION 061	MICROFILM	35 MM	1 OF 1	FILTERED PLOTS FLT 3,4 REQUEST 672,678
VR-76-30-000-00871	20 JUN 67	MISSION 061	MICROFILM	35 MM	1 OF 1	FILTERED TABS FLT 3,4 REQUEST 672,678
VR-76-30-000-00872	18 JUN 68	MISSION 074	MICROFILM	35 MM	1 OF 1	GUIDANCE AND NAVIGATION ASQ 90 ALL REQUEST
VR-76-30-000-00878	10 JUN 68	MISSION 060	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY 50 HZ BW SPEC REQUEST 687, 688,690,697
VR-76-30-000-00879	8 JUL 68	MISSION 075	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY FLT 3 REQ, 818-823
VR-76-30-000-00880	8 JUL 68	MISSION 075	MICROFILM	35 MM	1 OF 1	MICROWAVE ANTENNA TEMP, FLT 3
VR-76-30-000-00881	8 JUL 68	MISSION 075	MICROFILM	35 MM	1 OF 1	RADIOMETER FLT 3

PROCESSED ELECTRONIC DATA

ACCESSION NUMBER	DATE	DATA SOURCE	MEDIUM	TYPE	REEL NO.	REMARKS
VR-76-30-000-00005	8 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED TABS FLT 5 LINE 11-13
VR-76-30-000-00006	8 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED PLOTS FLT 5 LINE 11-13
VR-76-30-000-00007	8 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED TABS FLT 6 LINE 72,78,79,81,84
VR-76-30-000-00008	8 DEC 67	MISSION 056	MICROFILM	35 MM	1 OF 1	INFRARED PLOTS FLT 6 LINE 72,78,79,83,84
VR-76-30-000-00028	31 AUG 67	MISSION 058	MICROFILM	35 MM	1 OF 1	PRT-5 REQUEST 742
VR-76-30-000-00029	30 JUL 68	MISSION 077	MICROFILM	35 MM	1 OF 1	MICROWAVE FLT 2 LINE 30 RUN 1 FLT 2 LINE 31
VR-76-30-000-00030	30 JUL 68	MISSION 077	MICROFILM	35 MM	1 OF 1	RADAR REFLECTIVITY FLT 2
VR-76-30-000-00031	24 SEP 68	MISSION 080	MICROFILM	35 MM	1 OF 1	RADIOMETER STRIPCHART
VR-76-30-000-00052	6 NOV 68	MISSION 084	MICROFILM	35 MM	1 OF 1	RADIOMETER STRIPCHART FLT 2,3
VR-76-30-000-00064	24 MAY 68	MISSION 073	MICROFILM	35 MM	1 OF 1	MICROWAVE FLT 4 REQ. 974

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SUPPLEMENT IV

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

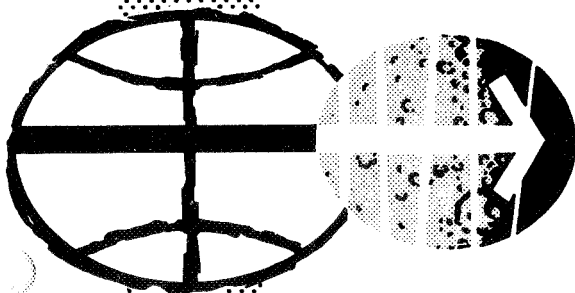
Supplement

EARTH RESOURCES RESEARCH

DATA FACILITY

R & D FILE

*Check July 78  
& release over that  
one.  
W/4-21-78*



MANNED SPACECRAFT CENTER  
HOUSTON, TEXAS

NOVEMBER 1970

# NOTICE

This document is the November Supplement to the July 1970, R&D File for the Earth Resources Research Data Facility.

The R&D File is published semi-annually and Supplements will be issued each month and should be retained.



TEST SITE

<u>Site</u>	<u>Zone</u>	<u>Name</u>
249	GJ	Guyandotte River, West Virginia
251	GJ	Destin, Florida
252	GJ	Chesapeake Bay, Maryland/Virginia
253	FH	Central Gulf Coastal Area
254	DJ	California Coastal Area
255	FJ	North High Plains, South Dakota
256	FH	Trinity Bay, Texas

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## **PART I - TECHNICAL DOCUMENTS AND MAPS**

**AGRICULTURE**

## **AGRICULTURE**

### **SECTION 04    MISSION SCREENING AND SUMMARY REPORTS**

MISSION SCREENING AND SUMMARY REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-A4-GJ-250-C0151	MISSION 151 - METEOROLOGICAL DATA FOR EARTH RESOURCES AIR-CRAFT PROGRAM. SITE 250, INDIANA GRAIN BELT (INDIANA). COMPILED BY THE ESSA WEATHER BUREAU, DETROIT, MICHIGAN - INDIANAPOLIS, INDIANA. SEPTEMBER 1970. (IN TWO PARTS)

## **AGRICULTURE**

### **SECTION 09 TECHNICAL REPORTS**



TECHNICAL REPORTS - AGRICULTURE

ACCESSION NUMBER	DESCRIPTION
NR-A9-00-000-00351	REMOTE SENSORS - A NEW DATA SOURCE FOR AGRICULTURAL STATISTICS. EARL E. HOUSEMAN, U.S. DEPT. OF AGRICULTURE, WASHINGTON, D.C. PUBLISHED IN AIAA, EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MD., MARCH 1970, PAPER NO.70-312. A70-22868. MICROFICHE COPY.
NR-A9-GJ-000-01159	INVESTIGATIONS OF CROP-HAIL LOSS MEASUREMENT TECHNIQUES. RESEARCH REPORT NO. 42. N.A. BARRON, S.A. CHANGNON, JR., J. HORNADAY, ILLINOIS STATE WATER SURVEY, URBANA, ILLINOIS. PB-189 706.

# CARTOGRAPHY

## **CARTOGRAPHY**

### **SECTION 08 SUBJECT RELATED DOCUMENTS**

**SUBJECT RELATED DOCUMENTS - CARTOGRAPHY**

<b>ACCESSION NUMBER</b>	<b>DESCRIPTION</b>
<b>NR-B8-00-000-00691</b>	<b>ESTIMATING COSTS OF AERIAL SURVEYS. ANTONIO M. AGUILAR, KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS. PUBLISHED IN CIVIL ENGINEERING, VOL. 39, NO. 10, OCT. 1969. PP70-73. W70-01698.</b>

## CARTOGRAPHY

### SECTION 09 TECHNICAL REPORTS

# TECHNICAL REPORTS - CARTOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-B9-00-000-00092	INVESTIGATION OF SMALL-SCALE MAP PROJECTIONS FOR SPACE IMAGERY. NATHAN RESNICK, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. MARCH 1970.
NR-B9-00-000-00357	K VOPROSU OBRABOTKI AEROSNIMKOV NA FOTOGAMMETRICHESKIH PROBORAKH PO USTANOVCHNYM VELICHINOM. (PROCESSING OF AERIAL PHOTOGRAPHS ON PHOTOGRAMMETRIC DEVICES ON THE BASIS OF SETTING VALUES. PUBLISHED IN GEODEZIJA I KARTOGRAFIJA, VOL. 14, NO. 10, 1969. PP.61-63. A70-18691 MICROFICHE COPY.
NR-B9-00-000-00358	OB OPTIMAL'NOM MASSHTABE AEROFOTOSEMKI. (OPTIMAL SCALE OF AERIAL SURVEYS). A.G. VANIN, USSR. PUBLISHED IN GEODEZIJA I KARTOGRAFIJA, VOL. 14, NO. 10, 1969. PP.52-61. A70-18690 MICROFICHE COPY
NR-B9-00-000-00638	THE CASE FOR UNIVERSAL MAPPING. ALDEN P. COLVOCORESSES, U.S. GEOLOGICAL SURVEY, MC LEAN, VA. AND U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C.
NR-B9-00-000-00766	TOPOGRAPHISCHE KARTOGRAPHIE IN DER GEGENWART. (TOPOGRAPHIC MAPPING AT THE PRESENT TIME.) HERBERT KNORR, FRANKFURT A.M. GERMANY. PUBLISHED IN ZEITSCHRIFT FUR VERMESSUNGSWESEN, VOL. 94, DEC. 1969. PP.504-511. A70-19371.
NR-B9-00-000-01036	ERFAHRUNGEN BEI DER HERSTELLUNG VON ORTHOPHOTOKARTEN. (EXPERIENCE IN THE PRODUCTION OF ORTHOPHOTO MAPS.) G. WINKELMANN, MUNSTER, GERMANY. PUBLISHED IN BILDMESSUNG UND LUFTBILDWESEN, VOL. 37, SEPT. 1969. PP.183-186. A69-41246.
NR-B9-00-000-01166	ADVANCED RADAR MAP COMPILATION EQUIPMENT. CLIFFORD J. CRANDALL, U.S. ARMY, INTELLIGENCE AND MAPPING RESEARCH AND DEVELOPMENT AGENCY (GIMRADA), FT. BELVOIR, VA. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 29, NO. 6, 1963. PP.947-955.

**FORESTRY**

## **GEOGRAPHY**

### **SECTION 08 - SUBJECT RELATED DOCUMENTS**



**SUBJECT RELATED DOCUMENTS - GEOGRAPHY**

<b>ACCESSION NUMBER</b>	<b>DESCRIPTION</b>
NR-D8-00-000-00690	MOIRE TOPOGRAPHY. H. TAKASAKI, SHIZUOKA UNIVERSITY, HAMAMATSU-SHI, JAPAN. PUBLISHED IN APPLIED OPTICS, VOL. 9, NO. 6, JUNE 1970. PP.1467-1472.

## **FORESTRY**

### **SECTION 08 SUBJECT RELATED DOCUMENTS**

**SUBJECT RELATED DOCUMENTS - FORESTRY**

<b>ACCESSION NUMBER</b>	<b>DESCRIPTION</b>
<b>NR-C8-00-000-00174</b>	<b>FORESTER'S GUIDE TO AERIAL PHOTO INTERPRETATION. USDA/ AGRICULTURAL HANDBOOK 308. T. EUGENE AVERY, FOREST SERVICE, U.S. DEPT. OF AGRICULTURE, WASHINGTON, D.C. OCT. 1966.</b>

# GEOLOGY

# GEOGRAPHY

## **GEOGRAPHY**

### **SECTION 08 - SUBJECT RELATED DOCUMENTS**

**SUBJECT RELATED DOCUMENTS - GEOGRAPHY**

<b>ACCESSION NUMBER</b>	<b>DESCRIPTION</b>
<b>NR-D8-00-000-00690</b>	<b>MOIRE TOPOGRAPHY. H. TAKASAKI, SHIZUOKA UNIVERSITY, HAMAMATSU-SHI, JAPAN. PUBLISHED IN APPLIED OPTICS, VOL. 9, NO. 6, JUNE 1970. PP.1467-1472.</b>

## **GEOGRAPHY**

### **SECTION 09 - TECHNICAL REPORTS**



# TECHNICAL REPORTS - GEOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-D9-EJ-998-00326	POTENTIAL RESEARCH AND EARTH RESOURCES STUDIES WITH ORBITING RADARS - RESULTS OF RECENT STUDIES. RICHARD K. MOORE AND DAVID SIMONETT, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS. PRESENTED AT THE AIAA ANNUAL MEETING AND TECHNICAL DISPLAY, 4TH, ANAHEIM, CALIF., OCT. 1967, AIAA PAPER NO. 67-767. GK-1153, N62305-67-C-0044, AND 14-08-0001-10848. PUBLISHED AS AIAA PAPER NO. 67-767, 4TH ANNUAL MEETING AND TECHNICAL DISPLAY, OCTOBER 23-27, 1967, ANAHEIM, CALIFORNIA. MICROFICHE AND HARD COPY. A67-42936
NR-D9-FJ-996-00360	POTENTIAL CONTRIBUTION OF ORBITAL EARTH RESOURCES DATA TO URBAN PLANNING. CHARLES T.N. PALUDAN, NASA/HUNTSVILLE, ALA. PRESENTED AT AMERICAN ASTRONAUTICAL SOCIETY AND OPERATIONS RESEARCH SOCIETY OF AMERICA, JOINT MEETING, DENVER, COLO., JUNE 1969, AAS PAPER 69-483. A69-42837. MICROFICHE COPY.
NR-D9-00-000-01012	EXPERIMENTAL APPLICATIONS OF MULTIBAND PHOTOGRAPHY IN URBAN RESEARCH. ERIC G. MOORE AND BARRY S. WELLAR, DEPT. OF GEOGRAPHY, NORTHWESTERN UNIVERSITY, CHICAGO, ILL. REPRINT FROM ILLINOIS STATE ACADEMY OF SCIENCE, TRANSACTIONS, VOL. 61, NO. 1, 1968. PP.80-88.
NR-D9-00-000-01183	THE MOVEMENT OF BARCHAN DUNES MEASURED BY AERIAL PHOTOGRAMMETRY. HERMAN J. FINKEL, ISRAEL INSTITUTE OF TECHNOLOGY, HAIFA, ISRAEL. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 27, NO. 3, 1961. PP.439-444.
NR-D9-00-000-01196	MAIN TRENDS IN THE APPLICATION OF AIRPHOTO METHODS TO GEOGRAPHICAL RESEARCH IN THE U.S.S.R. - A REVIEW OF PUBLICATIONS, 1962-1964. B.V. VINOGRADOV, ACADEMY OF SCIENCES, LENINGRAD, USSR. PUBLISHED IN PHOTOGRAMMETRIA, VOL. 23, MAY 1968. PP.77-94. A68-34720.
NR-D9-WJ-000-01199	AERIAL SURVEY - COLONY OF HONG KONG. H.G. DAWE, HUNTING SURVEYS LTD. PUBLISHED IN PHOTOGRAMMETRIC RECORD, VOL. 6, NO. 34, OCT. 1969. PP.335-347.
NR-D9-GH-164-01215	A MULTISPECTRAL SURVEY OF A COASTAL-INTRACOASTAL ENVIRONMENT. RICHARD E. WITMER, FLORIDA ATLANTIC UNIVERSITY, BOCA RATON, FLORIDA. TECHNICAL REPORT NO. 5, CONTRACT NO. NONR 4761(00). AD-667 610.
NR-D9-GH-164-01219	INSTRUMENTED GEOGRAPHIC ANALYSIS OF MULTISENSOR IMAGERY. JAMES P. LATHAM, FLORIDA ATLANTIC UNIVERSITY, BOCA RATON, FLORIDA. PRESENTED AT THE INTERNATIONAL GEOGRAPHIC CONGRESS, 21ST, NEW DELHI, INDIA, DEC. 1968, SECTION IX - CARTOGRAPHY AND PHOTOGEOGRAPHY.
NR-D9-EJ-130-01246	INFRARED SPECTROSCOPY AND INFRARED LASERS IN AIR POLLUTION RESEARCH AND MONITORING. PHILIP L. HANST, NASA ELECTRONICS RESEARCH CENTER, CAMBRIDGE, MASSACHUSETTS. IN - APPLIED SPECTROSCOPY, VOL. 24, NO. 2, MARCH/APRIL 1970. PP.161-174. A70-29106.

# GEOLOGY

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### **SECTION 09 TECHNICAL REPORTS**

# TECHNICAL REPORTS - GEOLOGY

ACCESSION NUMBER	DESCRIPTION
NR-E9-00-000-00774	INSTRUMENT DETAILS AND APPLICATIONS OF NEW AIRBORNE MAGNETOMETER. HOMER JENSEN, AERO SERVICE CORP., PHILADELPHIA, PA. PUBLISHED IN GEOPHYSICS, VOL. 30, NO. 5, OCT. 1965. PP.875-882.
NR-E9-XJ-000-00972	ON IR IMAGERY AND ITS APPLICATION TO THE MAPPING OF GEOTHERMAL DISTRIBUTIONS. K. MATSUNO, H. HASE, AND K. NISHIMURA, GEOLOGICAL SURVEY OF JAPAN, KAWASAKISHI, JAPAN. PUBLISHED IN PHOTOGRAMMETRIA, VOL. 25, DEC. 1969. PP.61-74. A70-16498.
NR-E9-00-000-01113	ASSESSMENT OF SATELLITE PHOTOGRAPHS FOR GEOLOGICAL MAPPING AND RESEARCH. J.A.E. ALLUM, INSTITUTE OF GEOLOGICAL SCIENCES, 5, PRINCES GATE, LONDON, S.W. 7. PUBLISHED IN JOURNAL OF THE BRITISH INTERPLANETARY SOCIETY, VOL. 23, NO. 4, APRIL 1970. PP.297-306.
NR-E9-EJ-998-01162	THE MULTIBAND APPROACH TO GEOLOGICAL MAPPING FROM ORBITING SATELLITES - IS IT REDUNDANT OR VITAL. R.J.P. LYON, STANFORD UNIVERSITY, STANFORD, CALIF. PRESENTED AT THE AIAA, EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MD., MARCH 1970. CONTRACT NOS. NAS9-7313 AND USDI 14-08-0001-11*72. A70-22**2.
NR-E9-EJ-002-01163	PISGAH CRATER TERRAIN ANALYSIS. G.A. MC CUE AND J. GREEN, NORTH AMERICAN AVIATION, INC., DOWNEY, CALIF. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 31, NO. 5, SEPT. 1965. PP.810-821
NR-E9-00-000-01164	GEOLOGIC INTERPRETATION OF AIRBORNE INFRARED IMAGERY. LAURENCE H. LATTMAN, PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 29, NO. 1, 1963. PP.83-87.
NR-E9-00-000-01177	TERRAIN MAPPING BY USE OF INFRARED RADIATION. DAVID E. HARRIS AND CASPAR L. WOODBRIDGE, HRB-SINGER, INC., STATE COLLEGE, PA. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 30, JAN. 1964. PP.134-139. PUBLISHED IN THE TRANS-
NR-E9-00-000-01180	THE SEARCH FOR ORE DEPOSITS USING THERMAL RADIATION. D.W. STRANGWAY AND R.C. HOLMER, KENNECOTT COPPER CORP., SALT LAKE CITY, UTAH. PUBLISHED IN GEOPHYSICS, VOL. 31, NO. 1, FEB. 1966. PP.225-242.
NR-E9-00-000-01188	INTERPRETING NATURAL TERRAIN FROM RADAR DISPLAYS. A.M. FEDER, CORNELL AERONAUTICAL LAB., BUFFALO, NEW YORK. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 26, NO. 4, 1960. PP.618-630.
NR-E9-LL-166-01189	A COMPARISON OF AERIAL FILMS IN THE STUDY OF BREIDAMERKUR GLACIER AREA, ICELAND. R. WELCH, UNIVERSITY OF GLASGOW, GLASGOW, SCOTLAND. PUBLISHED IN PHOTOGRAMMETRIC RECORD, VOL. 5, NO. 28, OCT. 1966. PP.289-306.
NR-E9-EJ-998-01195	EVALUATION OF GEOTHERMAL PROSPECTS AND THE OBJECTIVES OF GEOTHERMAL EXPLORATION. GUNNAR BODVARSSON, OREGON STATE UNIVERSITY, CORVALLIS, OREGON. PUBLISHED IN GEOEXPLORATION, VOL. 8, NO. 1, 1970. PP.7-17.
NR-E9-LL-166-01203	ANALYSIS OF 1966 INFRARED IMAGERY OF SURTSEY, ICELAND. RICHARD S. WILLIAMS, JR., AIR FORCE CAMBRIDGE RESEARCH LAB., BEDFORD, MASS. AND JULES D. FRIEDMAN, U.S. GEOLOGICAL SURVEY WASHINGTON, D.C. PRESENTED AT THE INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS, 14TH GENERAL ASSEMBLY, INTERNATIONAL ASSOCIATION OF VOLCANOLOGY SECTION, ZURICH, SWITZERLAND, OCT. 1967.

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ACCESSION NUMBER	DESCRIPTION
NR-E9-CL-000-01224	INTERPRETATION OF ALASKAN POST-EARTHQUAKE PHOTOGRAPHS. ROBERT J. HACKMAN, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 31, JULY 1969. PP.604-610.
NR-E9-LL-166-01227	PALEOMAGNETISM AND MAGNETIC SURVEYS IN ICELAND. LEO KRISTJANSSON, UNIVERSITY OF ICELAND, REYKJAVIK, ICELAND. PUBLISHED IN EARTH AND PLANETARY SCIENCE LETTERS, VOL. 8, NO. 2, APRIL 1970. PP.101-108.
NR-E9-00-000-01228	THE PHOTOGEOLOGICAL RECOGNITION OF ACIENT OROGENIC BELTS IN AFRICA. JOHN VORD HEPWORTH, INSTITUTE OF GEOLOGICAL SCIENCES, LONDON, ENGLAND. PUBLISHED IN JOURNAL GEOLOGICAL SOCIETY OF LONDON QUARTERLY, VOL. 123, PART 3, NO491, 1967. PP.253-291.

# HYDROLOGY

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### **SECTION 08 SUBJECT RELATED DOCUMENTS**

**SUBJECT RELATED DOCUMENTS - HYDROLOGY**

<b>ACCESSION NUMBER</b>	<b>DESCRIPTION</b>
NR-F8-00-000-00687	A MODELING APPROACH TO THE PROBLEM OF DETERMINING THE TEMPERATURE OF RIVERS FROM SATELLITES. A.A. DMITRIEV AND T.V. EVNEVICH, MOSCOW STATE UNIVERSITY, USSR. PUBLISHED IN AKADEMIJA NAUK SSSR, IZVESTIA, ATMOSPHERIC AND OCEANIC PHYSICS, VOL. 2, NO. 8, 1966. PP.897-899.



## **HYDROLOGY**

### **SECTION 09 TECHNICAL REPORTS**

# TECHNICAL REPORTS - HYDROLOGY

ACCESSION NUMBER	DESCRIPTION
NR-F9-EJ-130-00424	EFFECTIVE WATER RESOURCE MANAGEMENT. TRW SYSTEMS, SAN BERNARDINO, CALIF. APRIL 1968.
NR-F9-00-000-00490	EFFECTS ON PHOTOGRAPHS OF WATER BY VARIATION OF SEDIMENT AND ALGAL CONTENT UNDER CONTROLLED CONDITIONS. TECHNICAL REPORT 9. LYMAN O. WILLIAMS AND JOHN DAVID SAMOL, EAST TENNESSEE STATE UNIVERSITY, JOHNSON CITY, TENN. CONTRACT NO. N00014-67-A-0102-0001.
NR-F9-CK-000-00689	A RECONNAISSANCE STUDY OF CERTAIN ASPECTS OF THE HEAT CYCLE OF LAKES. FINAL REPORT DEC. 57-JAN. 68. REID A. BRYSON AND ROBERT A. RAGOTZKIE, UNIVERSITY OF WISCONSIN, MADISON, WIS. AUG. 1969. CONTRACT NO. NONR-1202(07). STAR N70-15031. AD-695 059.
NR-F9-00-000-01161	MICROWAVE SENSORS FOR WATER MANAGEMENT AND HYDROLOGY FROM SPACE. J.M. KENNEDY, RYAN AERONAUTICAL CO., SAN DIEGO, CALIF. PRESENTED AT THE AIAA ANNUAL MEETING AND TECHNICAL DISPLAY, 5TH, PHILADELPHIA, PA., OCT. 1968, PAPER 68-1076. A68-44991.
NR-F9-GH-095-01173	WATER RESOURCES IN THE EVERGLADES. WILLIAM J. SCHNEIDER, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 32, NOV. 1966. PP.958-965.
NR-F9-00-000-01186	ASPECTS OF COMPARATIVE AIR PHOTOINTERPRETATION IN THE DYFI ESTUARY. A.D. JONES, UNIVERSITY COLLEGE OF WALES, ABERYST-WYTH, WALES. PUBLISHED IN PHOTOGRAMMETRIC RECORD, VOL. 6, APRIL 1969. PP.291-305.
NR-F9-GJ-168-01208	WATER QUALITY AND PLANT DISTRIBUTION ALONG THE UPPER PATUX-ENT RIVER, MARYLAND. RICHARD R. ANDERSON, AMERICAN UNIVER-SITY, WASHINGTON, D.C., RUSSELL G. BROWN AND ROBERT D. RAPPLEYE, UNIVERSITY OF MARYLAND, COLLEGE PARK, MD. PUB-LISHED IN CHESAPEAKE SCIENCE, VOL. 9, NO. 3, SEPT. 1968. PP.145-156.
NR-F9-BH-998-01226	INFRARED PHOTOGRAPHY AND IMAGERY IN WATER RESOURCES RESEARCH. CHARLES J. ROBINOV, U.S. GEOLOGICAL SURVEY, ST. LOUIS, MO. PUBLISHED IN THE JOURNAL OF AMERICAN WATER WORKS ASSOCIATION, VOL. 57, NO. 1, 1965. PP.834-840.

# OCEANOGRAPHY

## OCEANOGRAPHY

### SECTION 04 MISSION SCREENING AND SUMMARY REPORTS

MISSION SCREENING AND SUMMARY REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G4-FH-158-C0149	MISSION 149 - METEOROLOGICAL DATA FOR EARTH RESOURCES AIR-CRAFT PROGRAM. SITE 158, CORPUS CHRISTI, TEXAS/GULF OF MEXICO. HURRICANE CELIA, AUGUST 2-6, 1970.ITOS WEATHER SATELLITE PHOTOGRAPHS. COMPILED BY ESSA/WEATHER BUREAU, GULF COAST STATIONS, NEW ORLEANS, LOUISIANA - GALVESTON, TEXAS, ET AL.

## **OCEANOGRAPHY**

### **SECTION 08 SUBJECT RELATED DOCUMENTS**

**SUBJECT RELATED DOCUMENTS - OCEANOGRAPHY**

<b>ACCESSION NUMBER</b>	<b>DESCRIPTION</b>
NR-G8-00-000-00714	THEORY OF HF GROUND WAVE BACKSCATTER FROM SEA WAVES. JAMES R. WAIT, ESSA, BOULDER, COLO. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 71, NO. 20, OCT. 1966. PP.4839-4842.

## **OCEANOGRAPHY**

### **SECTION 09 TECHNICAL REPORTS**



# TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-DK-000-00350	THE RELATIONSHIP BETWEEN ATMOSPHERIC LIGHT SCATTERING CO-EFFICIENTS AND VISIBILITY. HELMUTH HORVATH AND KENNETH E. NOLL, UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON. PUBLISHED IN ATMOSPHERIC ENVIRONMENT, VOL. 3, SEPT. 1969. PP.543-550. A70-18923.
NR-G9-00-000-00352	REMOTE SENSING OF THE SEA CONDITIONS WITH MICROWAVE RADIO-METER SYSTEMS. J.C. AUKLAND, ET AL., SPECTRAN, INC., DOWNEY, CALIFORNIA. PUBLISHED IN AIAA, EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MD. MARCH 1970. PAPER NO.70-318. A70-22869 MICROFICHE COPY.
NR-G9-HJ-138-00353	OCEAN AND WATER SURFACE TEMPERATURE MEASUREMENTS USING INFRARED REMOTE SENSING TECHNIQUES FROM AIRBORNE PLATFORMS. MORRIS WEISS, BARNES ENGINEERING CO., STAMFORD, CONN. PUBLISHED IN AIAA, THERMOPHYSICS CONFERENCE, 4TH, SAN FRANCISCO, CALIFORNIA. JUNE 1969, PAPER NO.69-590. A69-33286. MICROFICHE COPY.
NR-G9-00-000-00367	COMBINED AERIAL AND SHIPBOARD UPWELLING STUDY IN THE BENGUELA CURRENT. W.R.H. ANDREWS, DIV. OF SEA FISHERIES, SEA POINT, CAPE TOWN, SOUTH AFRICA, AND D.L. CRAM, CSIR, OCEANOGRAPHIC RESEARCH UNIT, UNIVERSITY OF CAPE TOWN, SOUTH AFRICA. PUBLISHED IN NATURE, VOL. 224, NO. 5222, NOV. 1969. PP.902-904.
NR-G9-00-000-00761	POWER SPECTRA FROM OCEAN MOVEMENTS MEASURED REMOTELY BY IONOSPHERIC RADIO BACKSCATTER. J.F. WARD, TOWNSVILLE UNIVERSITY COLLEGE, TOWNSVILLE, QUEENSLAND, AUSTRALIA. PUBLISHED IN NATURE, VOL. 223, NO. 5213, SEPT. 1969. PP.1325-1330.
NR-G9-00-000-00764	SPACE RECONNAISSANCE OF THE OCEAN - OPPORTUNITIES AND LIMITATIONS. GIFFORD C. EWING, WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MASS. PUBLISHED IN ANNALS OF NEW YORK ACADEMY OF SCIENCES, VOL. 140, NO. 1, DEC. 1966. PP.83-92.
NR-G9-00-000-00767	AN UNDERWATER SPECTRAL IRRADIANCE COLLECTOR. RAYMOND C. SMITH, SCRIPPS INSTITUTE OF OCEANOGRAPHY, UNIVERSITY OF CALIFORNIA, SAN DIEGO, LA JOLLA, CALIFORNIA. PUBLISHED IN JOURNAL OF MARINE RESEARCH, VOL. 27, NO. 3, 1969. PP.341-351.
NR-G9-00-000-00768	CORRELATION OF RADAR BACKSCATTERING CROSS-SECTIONS WITH OCEAN WAVE HEIGHTS AND WIND VELOCITY. TECHNICAL REPORT. K. KRISHN, LOCKHEED ELECTRONICS CO., HOUSTON, TEXAS. REPORT NO. LEC/HASD NO. 649.21.025. CONTRACT NO. NAS9-5191.
NR-G9-00-000-00769	THE REMOTE SENSING FROM AIRCRAFT AND SPACE VEHICLES OF TRACE VAPOURS ASSOCIATED WITH BIOLOGICAL ACTIVITY IN THE OCEANS. A.R. BARRINGER, BARRINGER RESEARCH, LTD., REXDALE, ONTARIO, CANADA.
NR-G9-00-000-00770	REMOTE SENSING OF MARINE EFFLUVIA. A.R. BARRINGER, BARRINGER RESEARCH, LTD., REXDALE, ONTARIO, CANADA.
NR-G9-00-000-00773	INFRARED-OPTICAL TECHNIQUES APPLIED TO OCEANOGRAPHY. I. MEASUREMENT OF TOTAL HEAT FLOW FROM THE SEA SURFACE. E.D. MC ALISTER, SCRIPPS INSTITUTION OF OCEANOGRAPHY, UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA. PUBLISHED IN APPLIED OPTICS, VOL. 3, NO. 4, MAY 1964.
NR-G9-GJ-998-00799	A PROCEDURE TO ELIMINATE PERIODIC NOISE FOUND IN NIMBUS II HIGH RESOLUTION INFRARED RADIOMETER MEASUREMENTS. LARRY M. MC MILLIN, ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. FEB. 1969. REPORT NO. 9G45-32 AND TR-9. CONTRACT NO. NAS5-10343.

# TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-BH-057-00817	UNDERWATER DEPTH DETERMINATION BY AERIAL PHOTOGRAPHY. A.C. LUNDAHL, U.S. NAVY PHOTOGRAPHIC INTERPRETATION CENTER. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 14, NO. 4, 1948. PP.454-462.
NR-G9-00-000-00848	ENVIRONMENTAL MANAGEMENT IN MARINE WATERS. MARINE POLLUTION PANEL DISCUSSION. CLARENCE M. TARZWELL, NATIONAL MARINE WATER QUALITY LAB., WEST KINGSTON, R.I. AND CHARLES J. ROBINOVE, EARTH RESOURCES OBSERVATION SATELLITE PROGRAM OF THE DEPT. OF THE INTERIOR, WASHINGTON, D.C. PRESENTED AT THE NORTH EASTERN REGIONAL ANTIPOLLUTION ANNUAL CONFERENCE, UNIVERSITY OF RHODE ISLAND, JULY 1969.
NR-G9-00-000-01006	ATMOSPHERIC PROPERTIES AND REFLECTANCES OF OCEAN WATER AND OTHER SURFACES FOR A LOW SUN. A.R. BOILEAU AND J.I. GORDON, SCRIPPS INSTITUTE OF OCEANOGRAPHY, UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIF. PUBLISHED IN APPLIED OPTICS, VOL. 5, NO. 5, MAY 1966. PP.803-813.
NR-G9-DJ-012-01011	REMOTE SENSING OF OCEAN COLOR. JAMES S. BAILEY AND PETER G. WHITE, TRW SYSTEMS GROUP, REDONDO BEACH, CALIF. PUBLISHED IN ADVANCES IN INSTRUMENTATION, VOL. 24, PART 3, 1969. ISA, PITTSBURGH. PP.635-1 TO 635-7. PRESENTED AT THE INSTRUMENT SOCIETY OF AMERICA, ANNUAL CONFERENCE, 24TH, HOUSTON, TEXAS. OCT. 1969. A70-18592.
NR-G9-GH-155-01147	THE FEASIBILITY OF DETECTION AND CLASSIFICATION OF FISH OIL SLICKS BY REMOTE SENSING. BARRINGER RESEARCH LIMITED, ONTARIO, CANADA. REPORT NO. TR-68-54. FEB. 1968.
NR-G9-00-000-01157	THE AIRBORNE RADIATION THERMOMETER ON THE PACIFIC COAST OF CANADA. J.P. TULLY, FISHERIES RESEARCH BOARD OF CANADA, PACIFIC OCEANOGRAPHIC GROUP, NANAIMO, B.C. APRIL 1964.
NR-G9-00-000-01158	SLAR IMAGERY FOR SEA ICE STUDIES. RICHARD A. BRADIE, RAYTHEON/AUTOMETRIC, ALEXANDRIA, VA. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 33, NO. 7, 1967. PP.763-766.
NR-G9-LL-166-01171	WORLDWIDE OCEANIC WIND AND WAVE PREDICTIONS USING A SATELLITE RADAR RADIOMETER. RICHARD K. MOORE, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS, AND WILLARD J. PIERSON, JR., NEW YORK UNIVERSITY, BRONX, NEW YORK. PRESENTED AT THE AIAA EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING ANNAPOLIS, MD., MARCH 1970, PAPER NO. 70-310. A70-22877.
NR-G9-GJ-239-01174	GREAT LAKES WATER TEMPERATURES BY AERIAL SURVEY. T.L. RICHARDS, METEOROLOGICAL SERVICE OF CANADA, PUBLISHED IN THE INTERNATIONAL ASSOCIATION OF SCIENTIFIC HYDROLOGY, NO. 70, 1966. PP.406-419.
NR-G9-00-000-01176	TO HUNT AN ICEBERG - MICROWAVE RADIOMETRY. ENSIGN CHARLES W. JUDGE, U.S. COAST GUARD. PUBLISHED IN GEOMARINE TECHNOLOGY, VOL. 1, NO. 3, FEB. 1965. PP.29-31.
NR-G9-HJ-998-01190	THE HORIZONTAL EXTENT AND PERSISTENCE OF THERMAL FRONTS IN THE SARGASSO SEA. ARTHUR D. VOORHIS, WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MASS. PUBLISHED IN DEEP-SEA RESEARCH, SUPPLEMENT TO VOL. 16, 1969. PP.331-337. CONTRACT NO. NONR-2196(01). AD-699 886.
NR-G9-GJ-000-01200	DEVELOPMENT AND EVALUATION OF PROCEDURE FOR USING AERIAL PHOTOGRAPHS TO CONDUCT A SURVEY OF COASTAL EROSION. DONALD BENNETT STAFFORD, NORTH CAROLINA STATE UNIVERSITY, RALEIGH, NORTH CAROLINA. PUBLISHED IN DISSERTATION ABSTRACTS, VOL. 29, 1969. PP.4163B-4164B. STAR N70-10073.
NR-G9-00-000-01201	OCEAN SURFACE ENVIRONMENT DEFINITION UTILIZING LASER TECHNIQUES. RONALD L. KIRK, ELECTRO-OPTICAL SYSTEMS, INC., PASADENA, CALIF. PUBLISHED IN IEEE INTERNATIONAL CONVENTION RECORD, 1967. ANNUAL, PART 8, MARCH 1967. PP.84-93. CONTRACT NO. NOW 66-0509-C.

# TECHNICAL REPORTS - OCEANOGRAPHY

ACCESSION NUMBER	DESCRIPTION
NR-G9-00-000-01205	UTILIZATION OF SATELLITE PHOTOS FOR ICE INTELLIGENCE. GABRIEL J. POTOCKY, NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. PRESENTED AT THE AMERICAN GEOPHYSICAL UNION, 49TH ANNUAL MEETING, APRIL 1968. PUBLISHED IN AMERICAN GEOPHYSICAL UNION TRANSACTIONS, VOL. 49, NO. 1, MARCH 1968. PP.219-223.
NR-G9-00-000-01206	COLOR ENHANCEMENT OF NIMBUS HIGH RESOLUTION INFRARED RADIO-METER DATA. E.R. KREINS, U.S. AIR FORCE, ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER, WASHINGTON, D.C. AND L.J. ALLISON, GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. PUBLISHED IN APPLIED OPTICS, VOL. 9, NO. 3, MARCH 1970. PP.681-686.
NR-G9-00-000-01210	A PHOTOGRAPHIC MEANS OF OBTAINING MONOCHROMATIC SPECTRA OF MARINE ALGAE. S.R. BAIG AND C.S. YENTSCH, NOVA UNIVERSITY, FORT LAUDERDALE, FLORIDA. PUBLISHED IN APPLIED OPTICS, VOL. 8, NO. 12, DEC. 1969. PP.2566-2568.
NR-G9-00-000-01211	VIEW OF THE OCEAN FROM SPACE. BUREAU OF COMMERCIAL FISHERIES BIOLOGICAL LAB. (GALVESTON) CONTRIBUTION NO. 259. ROBERT E. STEVENSON, BUREAU OF COMMERCIAL FISHERIES BIOLOGICAL LAB., GALVESTON, TEXAS.
NR-G9-GJ-998-01212	APPLICATION OF INFRARED MEASURING TECHNIQUES TO THE REMOTE SENSING OF WATER SURFACE TEMPERATURE. MORRIS WEISS, BARNES ENGINEERING CO., STAMFORD, CONN. PUBLISHED IN CANADIAN AERONAUTICS AND SPACE JOURNAL, VOL. 15, NO. 5, MAY 1969. PP.165-172.
NR-G9-HJ-998-01213	DATA HANDLING, DATA ANALYSIS AND GROUND VERIFICATION OF COLOR AND MULTI-SPECTRAL IMAGERY FOR COASTAL SURVEYING. ALFRED C. CONROD AND EDWIN A. OLSSON, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS. CONTRACT NUMBER NAS 12-2213. PUBLISHED IN AIAA, EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MD. MARCH 1970. PAPER NO.70-299. A70-22885.
NR-G9-00-000-01214	THE RELATION OF BACKSCATTERED RADIATION TO WIND-STRESS AT THE SEA SURFACE. FINAL REPORT 1967. SIO REFERENCE SERIES 67-28. CHARLES COX, UNIVERSITY OF CALIFORNIA, SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIF. CONTRACT NO. N62306-1165.
NR-G9-00-000-01217	AERIAL MEASUREMENT OF SEA-SURFACE TEMPERATURE IN THE INFRARED. PETER M. SAUNDERS, WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MASS. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 72, NO. 16, AUG. 1967. PP.4109-4117.
NR-G9-00-000-01218	EFFECT OF TEMPERATURE, ANGLE OF OBSERVATION, SALINITY, AND THIN ICE ON THE MICROWAVE EMISSION OF WATER. V.A. STROUNIAN DOUGLAS AIRCRAFT COMPANY, SANTA MONICA, CALIF. PUBLISHED IN JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 73, NO. 14, JULY 1968. PP.4481-4486.
NR-G9-00-000-01223	OCEAN WAVE PROFILE RECORDER. AN OCEANOGRAPHIC INSTRUMENT TRANSPORTABLE BY HELICOPTER. E.B. CROSON, U.S. NAVAL MISSILE CENTER, POINT MUGU, CALIF. JULY 1966. REPORT NO. TM-66-33.
NR-G9-GH-000-01225	AEROMAGNETIC SURVEY OF TAMPICO BANK. U.S. NAVAL OCEANOGRAPHIC OFFICE. LEONARD S. DENNIS AND PATRICK T. TAYLOR, U.S. NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C. DEC. 1967. REPORT NO. IR-67-89.
NR-G9-00-000-01231	SEA CLUTTER MEASUREMENTS BY A FOUR-FREQUENCY RADAR. M.B. LAING, NAVAL RESEARCH LAB., WASHINGTON, D.C. PRESENTED AT EASCON 69, IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION, WASHINGTON, D.C. OCT. 1969, RECORD, PP.286-293.

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**SECTION 04 MISSION SCREENING AND  
SUMMARY REPORTS**

MISSION SCREENING AND SUMMARY REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H4-FH-998-A0107	MISSION 107, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITES 155 AND 198
NR-H4-GJ-998-A0121	MISSION 121, EARTH RESOURCES SCREENING AND INDEXING REPORT. SITES 124, 125, 142, 151, 152, 188 AND 215
NR-H4-EJ-998-C0139	MISSION 139, EARTH RESOURCES AIRCRAFT PROGRAM - SURFACE WEATHER OBSERVATIONS, SITES 242, 211, 243, 020, 220, AND 029. NASA/MSC, SPACEFLIGHT METEOROLOGY GROUP, HOUSTON, TEXAS. JULY 20-31, 1970.

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**SECTION 07 SUMMARY REPORTS**

SUMMARY REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H7-EJ-998-00076	PRINCETON UNIVERSITY CONFERENCE, 97TH, ON AEROSPACE METHODS FOR REVEALING AND EVALUATING EARTH'S RESOURCES, PRINCETON, N.J., SEPT. 1969, PROCEEDINGS. (PRINCETON UNIVERSITY CONFERENCE, 1970. J. PRESTON LAYTON, EDITOR, DEPT. OF AEROSPACE AND MECHANICAL SCIENCE, PRINCETON UNIVERSITY, PRINCETON, N.J. JUNE 1970.



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**SECTION 08 SUBJECT RELATED DOCUMENTS**

# SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-00-000-00684	OPERATIONAL ENVIRONMENTAL SATELLITE SYSTEM. DR. CLIFFORD A. SPOHN, NATIONAL ENVIRONMENTAL SATELLITE CENTER, ESSA, SUITLAND, MD. PRESENTED AT THE AIAA ANNUAL MEETING AND TECHNICAL DISPLAY, 5TH, PHILADELPHIA, PA., OCT. 1968, PAPER NO. 68-1092. A68-44989.
NR-H8-00-000-00685	THE INFLUENCE OF HAZE ON INFRARED RADIATION MEASUREMENTS DETECTED BY SPACE VEHICLES. WILFORD ZDUNKOWSKI, DONALD HENDERSON, AND J. VERN HALES, UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH AND INTERMOUNTAIN WEATHER, INC., SALT LAKE CITY, UTAH. PUBLISHED IN TELLUS, VOL. 17, MAY 1965. PP.147-165.
NR-H8-00-000-00686	DETECTION RESULTS FOR SCANNING RADARS EMPLOYING FEEDBACK INTEGRATION. GERARD V. TRUNK, NAVAL RESEARCH LAB., WASHINGTON, D.C. PUBLISHED IN IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, VOL. AES-6, NO. 4, JULY 1970. PP.522-527.
NR-H8-00-000-00688	THE USES OF ORBITING REFLECTOR SATELLITES. A.G. BUCKINGHAM AND H.M. WATSON, WESTINGHOUSE ELECTRIC CORP., BALTIMORE, MARYLAND. PRESENTED AT THE AIAA ANNUAL MEETING AND TECHNICAL DISPLAY, 4TH, ANAHEIM, CALIF., OCT. 1967, PAPER NO. 67-786. A67-42949.
NR-H8-00-000-00689	DIFFRACTION THEORY OF SHADOW KNIFE AND SLIT PHOTOMETRIC METHODS. L.A. VASILYEV, E.P. KAZANDZHAN, AND V.S. SUKHORUKIKH, USSR. PUBLISHED IN AKADEMIY NAUK SSSR. DOKLADY, SERIYA FIZIKA (MOSCOW), VOL. 186, NO. 1, 1969. PP.70-72. REPORT NO. NASA-CR-108245. CONTRACT NO. NAS5-12487. STAR N70-19708.
NR-H8-00-000-00692	ECONOMIC ASPECTS OF IMPROVED WEATHER FORECASTING. J.C. THOMPSON, SAN JOSE STATE COLLEGE, SAN JOSE, CALIFORNIA. PRESENTED AT AIAA ANNUAL MEETING AND TECHNICAL DISPLAY, 5TH, PHILADELPHIA, PA., OCT. 1968, PAPER NO.68-1097.
NR-H8-00-000-00693	EXPERIMENT DESCRIPTION, INTEGRATION PROCESS AND SUPPORT EQUIPMENT DEVELOPMENT FOR AN ENVIRONMENTAL MEASUREMENTS EXPERIMENT PACKAGE OF THE APPLICATIONS TECHNOLOGY SATELLITE. L.W. RUSTAD AND W.C. KING, WESTINGHOUSE ELECTRIC CORP., BALTIMORE, MD. PRESENTED AT THE INTERNATIONAL ASTRONAUTICAL FEDERATION CONGRESS, 19TH, NEW YORK CITY, OCT. 1968 PAPER AS-114. A68-44303
NR-H8-00-000-00694	A METHOD FOR PREDICTING ATMOSPHERIC AEROSOL SCATTERING COEFFICIENTS IN THE INFRARED. E.A. BARNHARDT AND J.L. STREETE, LAB. FOR ATMOSPHERIC AND OPTICAL PHYSICS, SOUTH-WESTERN AT MEMPHIS, MEMPHIS, TENN. PUBLISHED IN APPLIED OPTICS, VOL. 9, NO. 6, JUNE 1970. PP.1337-1344.
NR-H8-00-000-00695	A MODIFIED FOURIER TRANSFORM METHOD FOR MULTIPLE SCATTERING CALCULATIONS IN A PLANE PARALLEL MIE ATMOSPHERE. J.V. DAVE, AND J. GAZDAG, IBM SCIENTIFIC CENTER, PALO ALTO, CALIFORNIA. PUBLISHED IN APPLIED OPTICS, VOL. 9, NO. 6, JUNE 1970. PP.1457-1466.
NR-H8-00-000-00698	AEROSPACE MEASUREMENT TECHNIQUES- SYMPOSIUM, CAMBRIDGE, MASS., JULY 1966, PROCEEDINGS. GENE G. MANNELLA, NASA/ ELECTRONICS RESEARCH CENTER, CAMBRIDGE, MASS. NASA SP-132. STAR N67-17781 TO N67-17795.
NR-H8-00-000-00699	MEASUREMENT AND INTERPRETATION OF REFRACTIVE INDEX DIFFERENCES. ARCHIE W. STRAITON, UNIVERSITY OF TEXAS, AUSTIN, TEXAS. IN EFFECTS OF ATMOSPHERIC WATER ON ELECTROMAGNETIC WAVE PROPAGATION- NATO, ADVANCED STUDY INSTITUTE, LONDON, ONTARIO, CANADA, SEPT. 1969, PROCEEDINGS (LONDON, WESTERN ONTARIO, 1970. PP.179-192. A70-28790.

SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-00-000-00700	ATMOSPHERIC THERMAL RADIATION DUE TO THE 22.235 GHZ (13.5 MM) AND 183.311 GHZ (1.64 MM) H <sub>2</sub> O ROTATIONAL LINES. D.L. CROOM, RADIO AND SPACE RESEARCH STATION, DITTON PARK,, SLOUGH, BUCKS, ENGLAND. IN EFFECTS OF ATMOSPHERIC WATER ON ELECTROMAGNETIC WAVE PROPAGATION, NATO, ADVANCED STUDY INSTITUTE, LONDON, ONTARIO, SEPT. 1969, PROCEEDINGS (LONDON, WESTERN ONTARIO UNIVERSITY, 1970) PP.53-68. A70-28785
NR-H8-00-000-00701	SPECTROSCOPIC MEASUREMENTS OF WATER VAPOR-AIR WITH THE MICROWAVE DISPERSOMETER. H.J. LIEBE, ESSA, RESEARCH LAB, BOULDER, COLORADO. IN EFFECTS OF ATMOSPHERIC WATER ON ELECTROMAGNETIC WAVE PROPAGATION, NATO ADVANCED STUDY INSTITUTE, LONDON, ONTARIO, SEPT. 1969, PROCEEDINGS (LONDON, WESTERN ONTARIO UNIVERSITY, 1970) PP.40-52. A70-28784.
NR-H8-00-000-00702	THE EVOLUTION OF GEOS-C AND THE RADAR ALTIMETER FOR GEODETIC MEASUREMENTS. TECHNICAL MEMORANDUM, REPORT NO. TG 1115. S.J. KOWAL, THE JOHNS HOPKINS UNIVERSITY, APPLIED PHYSICS LAB., SILVER SPRING, MARYLAND. MAY 1970. CONTRACT NUMBER N00017-62-C-0604.
NR-H8-00-000-00703	SCATTERING IN THE ATMOSPHERES OF THE EARTH AND THE PLANETS. H.C. VAN DE HULST, YERKES OBSERVATORY, UNIVERSITY OF CHICAGO. PUBLISHED IN THE ATMOSPHERES OF THE EARTH AND PLANETS, 1952 CHAPTER 3, PP.49-111.
NR-H8-00-000-00704	THE ABSORPTION SPECTRUM OF THE ATMOSPHERE. LEO GOLDBERG, UNIVERSITY OF MICHIGAN OBSERVATORY. PUBLISHED IN THE EARTH AS A PLANET, (THE SOLAR SYSTEM, VOL. 2), CHICAGO, UNIVERSITY OF CHICAGO PRESS, 1954, CHAPTER 9, PP.434-490.
NR-H8-00-000-00706	THE INTERNATIONAL SYSTEM OF UNITS. PHYSICAL CONSTANTS AND CONVERSION FACTORS. NASA SP-7012. E.A. MECHTLY, UNIVERSITY OF ILLINOIS. NASA/SCIENTIFIC AND TECHNICAL INFORMATION DIV., WASHINGTON, D.C. 1969.
NR-H8-00-000-00707	MESSUNGEN OBER DEN EINFLUSS DER TEMPERATUR AUF DIE SPEKTRALEN EIGENSCHAFTEN VON FARBGLASFILTERN UND FOTOVERVIELFACHERN. (MEASUREMENTS OF THE INFLUENCE OF TEMPERATURE ON THE SPECTRAL CHARACTERISTICS OF COLORED-GLASS FILTERS AND PHOTOMULTIPLIERS. F.H. GIESEKING, BONN UNIVERSITAT, BONN, WEST GERMANY. PUBLISHED IN MESSTECHNIK, VOL. 77, OCT. 1969, PP.240-243. A70-12494
NR-H8-00-000-00708	COVERT, SOLID-STATE IMAGING SYSTEM. S. KENNEDY, J. HUNT, ET AL., FAIRCHILD SPACE AND DEFENSE SYSTEMS, SYOSSET, LONG ISLAND, NEW YORK. PRESENTED AT THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS, ANNUAL TECHNICAL SYMPOSIUM AND EXHIBORAMA, 14TH, SAN FRANCISCO, CALIF., AUG. 1969. PUBLISHED IN PHOTO-OPTICAL INSTRUMENTATION APPLICATIONS AND THEORY, SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS PROCEEDINGS, VOL. 2, AUG. 1969. PP.43-47. A70-23752.
NR-H8-00-000-00709	RADAR SPECTRUM CONTROL. HAROLD R. WARD, RAYTHEON CO., WAYLAND, MASS. PRESENTED AT EASCON 69, IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION, WASHINGTON, D.C. OCT. 1969. RECORD, PP.298-304. A70-27941.
NR-H8-00-000-00710	INTERCLUTTER VISIBILITY IN MTI SYSTEMS. D.K. BARTON AND W.W. SHRADER, RAYTHEON CO., WAYLAND, MASS. PRESENTED AT EASCON 69, IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION WASHINGTON, D.C. OCT. 1969. RECORD, PP.294-297. A70-27940.

# SUBJECT RELATED DOCUMENTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H8-00-000-00711	MAN - THE FINAL STAGE OF AN ELECTRO-OPTICAL IMAGING SYSTEM. R.R. LEGAULT, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN. PRESENTED AT EASCON 69, IEEE, ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION, WASHINGTON, D.C. OCT. 1969. RECORD, PP.16-21. A70-27903.
NR-H8-00-000-00712	IMAGE PROCESSING BY AN OPTICAL ANALOG DEVICE. ROLAND V. SHACK, UNIVERSITY OF ARIZONA, TUCSON, ARIZONA. PUBLISHED IN PATTERN RECOGNITION, VOL. 2, 1970. PP.123-126.
NR-H8-00-000-00713	MAN AND HIS ALTIMETER. DR. J.M. ROLFE, RAF, INSTITUTE OF AVIATION MEDICINE, FARNBOROUGH, HANTS, ENGLAND. PUBLISHED IN FLIGHT INTERNATIONAL, VOL. 97, MAY 1970. PP.819-821. A70-30287.
NR-H8-00-000-00715	MEASUREMENT OF AIR DENSITY. CLAY D. WESTLUND AND OBED C. HAY COCK, UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH. PRESENTED AT SPACE PROJECTIONS FROM THE ROCKY MT. REGION, PROCEEDINGS OF THE SYMPOSIUM, DENVER, COLORADO, JULY 1968, PAPER 68-2-3. A69-12809.
NR-H8-00-000-00716	STUDIES OF EARTH AIRGLOW. ALVIN M. DESPAIN AND DORAN J. BAKER, UTAH STATE UNIVERSITY, LOGAN, UTAH. PRESENTED AT SPACE PROJECTIONS FROM THE ROCKY MT. REGION, PROCEEDINGS OF THE SYMPOSIUM, DENVER, COLORADO, JULY 1968, PAPER 68-2-5. A69-12810
NR-H8-00-000-00717	THEORETICAL INTERPRETATION OF MOIRE PATTERNS, GERALD OSTER, ET AL., POLYTECHNIC INSTITUTE OF BROOKLYN, BROOKLYN, N.Y. PUBLISHED IN JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 54, NO. 2, FEB. 1964, PP.169-175.
NR-H8-00-000-00718	MOIRE PATTERNS - THEIR APPLICATION TO REFRACTIVE INDEX AND REFRACTIVE INDEX GRADIENT MEASUREMENT. YASUNORI NISHIJIMA, KYOTO UNIVERSITY, KYOTO, JAPAN, AND GERALD OSTER, POLYTECHNIC INSTITUTE OF BROOKLYN, BROOKLYN, N.Y. IN JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, VOL. 54, NO. 1, JAN. 1964 PP.1-5.
NR-H8-SG-000-00719	AN ATLAS OF TIROS VII MONTHLY MAPS OF EMITTED RADIATION IN THE 8-12 MICRON ATMOSPHERIC WINDOW OVER THE INDIAN OCEAN AREA. NASA TN D-5101. EARL R. KREINS, MAJOR USAF, USAF ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER, WASHINGTON, D.C., AND LEWIS J. ALLISON, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C. APRIL 1969. N69-23318

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**SECTION 09 TECHNICAL REPORTS**

# TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-00-000-00349	DUAL CHANNEL SCANNING RADIOMETER, FINAL REPORT. RCA, PRINCETON, NEW JERSEY. JAN. 1968. REPORT NOS. NASA-CR-95618 AND AED-R-3278. CONTRACT NO. NAS5-10414. STAR N69-28504.
NR-H9-00-000-00354	SENSOR PERFORMANCE AND THE VEHICLE. PAUL L. PRYOR, USAF, WRIGHT-PATTERSON AFB, OHIO. PUBLISHED IN AIAA, EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MD., MARCH 1970, PAPER NO. 70-291. A70-22853 MICROFICHE COPY.
NR-H9-00-000-00355	O MIKROFILMIROVANII AERONEGATIVOV. (MICROFILMING OF AERIAL NEGATIVES). V. IA. MIKHAILOV, USSR. PUBLISHED IN GEODEZIJA I KARTOGRAFIJA, VOL. 14, NO. 10, 1969. PP.67-71. A70-14692 MICROFICHE COPY.
NR-H9-00-000-00356	OPYT PROIZVODSTVENNOGO PRIMEENENIIA SAMOLETNOGO RADIODALNO-MERA PRI SEMKE V MASSHTABE 1.25,000. (EXPERIMENTAL APPLICATION OF AN AIRCRAFT RANGE-ONLY RADAR IN SURVEYS ON A SCALE OF 1.25,000). PUBLISHED IN GEODEZIJA I KARTOGRAFIJA, VOL. 14, NO. 11, 1969. PP.29-35. A70-19632. MICROFICHE COPY.
NR-H9-00-000-00359	PROGRESS IN HOLOGRAPHY. D. GABOR, IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY, LONDON, ENGLAND. PUBLISHED IN REPORTS ON PROGRESS IN PHYSICS, VOL. 32, PART 1, 1969. PP.395-404. A70-189. MICROFICHE COPY.
NR-H9-00-000-00362	THE THEORY AND CONSTRUCTION OF A PROPOSED SUPERCONDUCTING AEROMAGNETIC GRADIOMETER. MATTI OTALA, OULU YLIOPISTO, OULU, FINLAND. PUBLISHED IN ACTA POLYTECHNICA SCANDINAVICA, ELECTRICAL ENGINEERING SERIES, NO. 21, 1969. A70-10289. MICROFICHE COPY.
NR-H9-00-000-00763	DIE ELEKTRONISCHEN ENTFERNUNGSMESSER WILD DISTOMAT DI 50 UND DI 10. (THE ELECTRONIC DISTANCE METERS WILD DISTOMAT DI 50 AND DI 10.) GEORGE STRASSER, WILD HEERBRUGG AG, REBSTEIN, SWITZERLAND. PUBLISHED IN MESSTECHNIK, VOL. 77, NO. 12, DEC. 1969. PP.279-286. A70-16799.
NR-H9-00-000-00973	INDUSTRIAL, SCIENTIFIC AND COMMERCIAL APPLICATIONS OF NASA DEVELOPED TELEMETRY TECHNOLOGY. ERWIN S. TELTSCHER, DIGICOM INC., ROSYLN, NEW YORK. PUBLISHED IN NTC '69 RECORD, APRIL 1969. PP.124-131. PRESENTED AT THE NATIONAL TELEMETERING CONFERENCE, WASHINGTON, D.C., APRIL 1969.
NR-H9-00-000-00974	MULTI SPECTRAL IMAGE ANALYSIS. PATRICK D. FLIGOR, TECHNOLOGY, INC., MOUNTAIN VIEW, CALIF. PUBLISHED IN '69 NAECON PROCEEDINGS, MAY 1969. PP.57-61. PRESENTED AT INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, NATIONAL AEROSPACE ELECTRONICS CONFERENCE, 21ST, DAYTON, OHIO, MAY 1969. A69-34064.
NR-H9-EK-998-01046	PROJECTED USES OF OBSERVATIONS OF THE EARTH FROM SPACE -- THE EROS PROGRAM OF THE DEPARTMENT OF THE INTERIOR. WILLIAM A. FISCHER, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PUBLISHED IN AIAA PROCEEDINGS, MARCH 1970, PAPER NO. 70-332. PRESENTED AT THE AIAA EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEMS MEETING, ANNAPOLIS, MARYLAND, MARCH 1970.
NR-H9-HJ-000-01154	LOCATING POTENTIAL OUTDOOR RECREATION AREAS FROM AERIAL PHOTOGRAPHS. JOHN J. LINDSAY, UNIVERSITY OF VERMONT, BURLINGTON, VERMONT. PUBLISHED IN JOURNAL OF FORESTRY, VOL. 67, NO. 1, JAN. 1969. PP.33-35.

# TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-00-000-01155	SPACE SYSTEMS FOR EARTH RESOURCES INFORMATION. DONALD M. WALTZ, TRW SYSTEMS, REDONDO BEACH, CALIF. PRESENTED AT THE AMERICAN ASTRONAUTICAL SOCIETY, NATIONAL MEETING, LAS CRUCES, NEW MEXICO, OCT. 1969. PAPER NO. AAS69-584. A70-14643.
NR-H9-EJ-998-01156	GENERAL INFORMATION OF MULTISPECTRAL PHOTOGRAPHY NASA EXPERIMENT SO65 AS FLOWN ON APOLLO 9, MARCH 1969. PAUL D. LOWMAN, JR., NASA/GODDARD SPACEFLIGHT CENTER, GREENBELT, MARYLAND.
NR-H9-00-000-01160	SPOTTING POLLUTION FROM SPACE. KIRT R. STEHLING. PUBLISHED IN SPACE/AERONAUTICS, VOL. 53, NO. 6, JUNE 1970. PP.47-49.
NR-H9-00-000-01165	INFRARED COLOUR PHOTOGRAPHY. ALAN MARSHALL, KODAK, LTD., HARROW, MIDDLESEX, ENGLAND. PUBLISHED IN SCIENCE JOURNAL, VOL. 4, NO. 1, JAN. 1968. PP.45-51.
NR-H9-DJ-998-01167	AERIAL PHOTOGRAPHY OF THE EARTH'S SURFACE, ITS PROCUREMENT AND USE. ROBERT N. COLWELL, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF. PUBLISHED IN APPLIED OPTICS, VOL. 5, NO. 6, JUNE 1966. PP.883-892.
NR-H9-00-000-01168	SPACE OBSERVATIONS AID EARTH RESOURCE STUDIES. WILLIAM A. FISCHER, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PRESENTED AT THE AIAA ANNUAL MEETING AND TECHNICAL DISPLAY, 4TH, ANAHEIM, CALIF., OCT. 1967. PAPER NO. 67-764.
NR-H9-00-000-01169	SENSING WITH RADAR. DR. LEONARD J. PORCELLIO, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH. PRESENTED AT THE UNIVERSITY OF MICHIGAN, ENGINEERING SUMMER CONFERENCES, FUNDAMENTALS OF REMOTE SENSING, ANN ARBOR, MICH., JULY 1969. A69-37741.
NR-H9-00-000-01170	THE EXTRACTION OF DATA FROM AERIAL PHOTOGRAPHS BY HUMAN AND MECHANICAL MEANS. DR. ROBERT N. COLWELL, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF. PUBLISHED IN PHOTOGRAMMETRIA, VOL. 20, 1965. PP.211-228.
NR-H9-00-000-01172	PHOTOGRAPHY AND IMAGERY - A CLARIFICATION OF TERMS. CHARLES J. ROBINOVE, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PUBLISHED IN PHOTOGRAMMETRIC ENGINEERING, VOL. 29, NO. 5, 1963. PP.880-881.
NR-H9-00-000-01175	REMOTE DETECTION OF SOLAR STIMULATED LUMINESCENCE. WILLIAM R. HEMPHILL, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. PRESENTED AT THE INTERNATIONAL ASTRONAUTICAL FEDERATION CONGRESS, 19TH, NEW YORK CITY, NEW YORK, OCT. 1968. PAPER AS-156.
NR-H9-00-000-01178	GEOPHYSICAL INVESTIGATIONS ON MANNED SPACECRAFTS. K.YA. KONDRATYEV AND O.I. SMOKTY, LENINGRAD STATE UNIVERSITY, LENINGRAD, USSR. PUBLISHED IN PURE AND APPLIED GEOPHYSICS, VOL. 72, NO. 1, 1969. PP.227-246. A69-16633.
NR-H9-00-000-01179	TERRAIN RADAR SCATTER - EXPERIMENTAL AND THEORETICAL. WESCON TECHNICAL PAPERS 1968. PART I, SESSION 22, 5 PAPERS. WESCON (WESTERN ELECTRIC SHOW AND CONVENTION), SPONSORED BY REGION 6 OF THE IEEE AND THE WESTERN ELECTRONIC MANUFACTURERS ASSOC.
NR-H9-00-000-01181	APPARENT TEMPERATURES OF SOME TERRESTRIAL MATERIALS AND THE SUN AT 4.3-MILLIMETER WAVELENGTHS. A.W. STRAITON, C.W. TOLBERT, AND C.O. BRITT, UNIVERSITY OF TEXAS, AUSTIN, TEXAS. PUBLISHED IN JOURNAL OF APPLIED PHYSICS, VOL. 29, NO. 5, MAY 1958. PP.776-782.

# TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-00-000-01182	SOME IMPORTANT CHARACTERISTICS OF PHOTOGRAPHIC MATERIALS FOR AIR PHOTOGRAPHS. L. MULLINS, KODAK, LTD. PUBLISHED IN PHOTOGRAMMETRIC, VOL. 5, NO. 28, OCT. 1966. PP.240-270.
NR-H9-00-000-01185	THE USE OF COLOUR PHOTOGRAPHY FOR LARGE-SCALE MAPPING. H.C. WOODROW, ORDNANCE SURVEY. PUBLISHED IN PHOTOGRAMMETRIC RECORD, VOL. 5, NO. 30, 1967. PP.433-460.
NR-H9-00-000-01187	MIKROMETEOROLOGISCHE TEMPERATURMESSUNGEN VON LUFTFAHRZEUGEN AUS. DIETER LORENZ, METEOROLOGISCHES OBSERVATORIUM HOHENPEISSENBERG OBERHAUSEN, DEUTSCHLAND, WEST GERMANY. PUBLISHED IN ANNALEN DER METEOROLOGIE, NO. 3, 1967. PP.154-158.
NR-H9-00-000-01191	A GUIDE TO SATELLITE CLOUD PHOTO INTERPRETATION. ROY LEE AND CHARLES I. TAGGART, DEPT. OF TRANSPORT, METEOROLOGICAL BRANCH, TORONTO, CANADA. PUBLISHED IN EFFECTS OF ATMOSPHERIC WATER ON ELECTROMAGNETIC WAVE PROPAGATION, NATO, ADVANCED STUDY INSTITUTE PROCEEDINGS, LONDON, ONTARIO, SEPT. 1969. PP.73-90. A70-28786.
NR-H9-00-000-01192	LIDAR. R.T.H. COLLIS, STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIF. PUBLISHED IN EFFECTS OF ATMOSPHERIC WATER ON ELECTROMAGNETIC WAVE PROPAGATION, NATO, ADVANCED STUDY INSTITUTE PROCEEDINGS, LONDON, ONTARIO, SEPT. 1969. PP.104-120. A70-28787.
NR-H9-00-000-01193	SOME PHOTOGRAPHIC RESULTS OF THE APOLLO 11 MISSION. PAUL A LARSEN, NASA, MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA. REPORT NO. NASA-TM X-64501. STAR N70-24246.
NR-H9-00-000-01194	AIRBORNE GEOPHYSICAL METHODS. PETER HOOD, GEOLOGICAL SURVEY OF CANADA, OTTAWA, CANADA AND S.H. WARD, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF. PUBLISHED IN ADVANCES IN GEOPHYSICS, VOL. 13, 1969. PP.1-112.
NR-H9-00-000-01197	METHODOLOGY OF AIR-PHOTO-INTERPRETATION AS ILLUSTRATED FROM THE SOIL SCIENCES. A.P.A. VINK, UNIVERSITY OF AMSTERDAM, AMSTERDAM, NETHERLANDS. PUBLISHED IN BILDMESSUNG UND LUFTBILDMESSEN, VOL. 38, JAN. 1970. PP.35-44. A70-19778.
NR-H9-00-000-01202	SOME OBSERVATIONS ON PHOTOGRAPHIC INTERPRETATION. WHAT IS PHOTOGRAPHIC INTERPRETATION. CHARLES E. OLSON, JR., UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH. PRESENTED AT THE UNIVERSITY OF MICHIGAN, ENGINEERING SUMMER CONFERENCES, FUNDAMENTALS OF REMOTE SENSING, ANN ARBOR, MICH., JULY 1969. A69-37739.
NR-H9-00-000-01204	INFRARED SPECTRAL EMISSIVITY OF TERRAIN. FINAL REPORT, JAN. 1957-MARCH 1958. W.R. FREDRICKSON, N. GINSBURG, AND R. PAULSON, SYRACUSE UNIVERSITY, SYRACUSE, NEW YORK. REPORT NO. WADC-TR-58-229. CONTRACT NO. AF33(616)-5034 AND 4056-40560. AD-155-552.
NR-H9-00-000-01207	MAKING PHOTOGRAPHS CLEARER. RESEARCH TRENDS MAGAZINE, CORNELL AERONAUTICAL LAB., BUFFALO, NEW YORK. PUBLISHED IN INDUSTRIAL PHOTOGRAPHY, VOL. 18, OCT. 1969. PP.24-27, 81-82.
NR-H9-00-000-01209	PHOTOGRAPHISCHE AUFNAHMEN AUSSERHALB DER ERDATMOSPHERE UND IHRE MOGLICHE KUNSTIGE BEDEUTUNG FÜR DIE WISSENSCHAFT. (PHOTOGRAPHS OUTSIDE THE EARTH'S ATMOSPHERE AND THEIR POSSIBLE FUTURE IMPORTANCE TO SCIENCE.) PROF. HARALD VOLKMANN, CARL ZEISS, WEST GERMANY. PUBLISHED IN NATURWISSENSCHAFTLICHE RUNDSCHAU, VOL. 22, HEFT. 10, OCT. 1969. PP.431-439. A70-13168.



# TECHNICAL REPORTS - MULTISUBJECT

ACCESSION NUMBER	DESCRIPTION
NR-H9-00-000-01216	DIFFRACTION-PATTERN SAMPLING FOR AUTOMATIC PATTERN RECOGNITION. GEORGE G. LENDARIS AND GORDON L. STANLEY, AC ELECTRONICS-DEFENSE RESEARCH LAB., SANTA BARBARA, CALIF. PUBLISHED IN IEEE PROCEEDINGS, VOL. 58, FEB. 1970. PP.198-216. A70-23802.
NR-H9-00-000-01220	OPERATIONAL AIRBORNE THERMAL IMAGING SURVEYS. RONALD W. STINGELIN, HRB-SINGER, INC., STATE COLLEGE, PA. PUBLISHED IN GEOPHYSICS, VOL. 34, NO. 5, OCT. 1969. PP.760-771.
NR-H9-00-000-01222	A SPECTRUM MATCHING TECHNIQUES FOR ENHANCING IMAGE CONTRAST DONALD S. LOWE AND JOHN G.N. BRAITHWAITE, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN. PUBLISHED IN APPLIED OPTICS, VOL. 5, NO. 6, JUNE 1966. PP.893-898.
NR-H9-EJ-998-01232	MANNED SYSTEMS FOR SENSING EARTH'S RESOURCES. JOHN E. DORNBACH, NASA/MSC, EARTH OBSERVATIONS DIV., HOUSTON, TEXAS. PUBLISHED IN PRINCETON UNIVERSITY CONFERENCE ON AEROSPACE METHODS FOR REALING AND EVALUATING EARTH'S RESOURCES, PRINCETON, N.J., SEPT. 1969, PROCEEDING, PP.6.1-6.35.
NR-H9-00-000-01233	OPERATIONAL PLANNING FOR GLOBAL EARTH SURVEYS USING SPACE VEHICLES. PETER ROCK AND JOHN G. BARNBY, IIT RESEARCH INSTITUTE, CHICAGO, ILL. AND ROBERT DUBINSKY, GEONAUTICS, INC., WASHINGTON, D.C. PRESENTED AT THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS, ANNUAL TECHNICAL SYMPOSIUM AND EXHIBORAMA, 14TH, SAN FRANCISCO, CALIF. AUG. 1969. PUBLISHED IN PHOTO-OPTICAL INSTRUMENTATION APPLICATIONS AND THEORY, SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS PROCEEDINGS, VOL. 2, AUG. 1969. PP.199-206. CONTRACT NO. NASR 65(10). A70-23762.

# PROGRAM DOCUMENTS

## **PROGRAM DOCUMENTS**

### **SECTION 06 - DIVISION BIBLIOGRAPHY**

DIVISION BIBLIOGRAPHY - PROGRAM DOCUMENTS

ACCESSION NUMBER	DESCRIPTION
NR-P6-GJ-000-00356	EFFECTS OF ORGANIC MATTER ON THE MULTISPECTRAL PROPERTIES OF SOILS. M.F. BAUMGARDNER, C.J. JOHANNSEN, ET AL., PURDUE UNIVERSITY, WEST LAFAYETTE, INDIANA. LARS INFORMATION NOTE 030570. AGRICULTURAL EXPERIMENT STATION JOURNAL NO. 3939.
NR-P6-00-000-00357	A STUDY OF THE ECONOMIC BENEFITS AND IMPLICATIONS OF SPACE STATION OPERATIONS. VOL. 1, SUMMARY, VOL. 2, COST/BENEFIT METHODOLOGY, VOL. 3, CASE STUDIES. ALLAN H. MUIR, PLANNING RESEARCH CORP., WASHINGTON, D.C. REPORT NO. PRC R-1218. CONTRACT NUMBER NASW-1604. JANUARY 1968.

## **PART IV SATELLITE DATA**

**SECTION 51- APOLLO FILM AND DOCUMENT  
DATA FILE**

APOLLO FILM AND DOCUMENT DATA FILE

ACCESSION NUMBER	DESCRIPTION
NR-51-00-000-00302	APOLLO 12 MISSION REPORT. REPORT NO. MSC-01855. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. MARCH 1970.
NR-51-00-000-00304	ANALYSIS OF APOLLO AS-501 MISSION EARTH PHOTOGRAPHY. NASA TECHNICAL MEMORANDUM X-58015. COMPILED BY JOHN E. DORNBACH, MANNED SPACECRAFT CENTER, HOUSTON, TEXAS. FEBRUARY 1968. STAR N68-36467.

**SECTION 52 - EARTH RESOURCES  
TECHNOLOGICAL SATELLITES (ERTS)**



**EARTH RESOURCES TECHNOLOGICAL SATELLITES (ERTS)**

<b>ACCESSION NUMBER</b>	<b>DESCRIPTION</b>
NR-52-00-000-00027	MANAGEMENT, PROCESSING AND DISSEMINATION OF SENSORY DATA FOR THE EARTH RESOURCES TECHNOLOGY SATELLITE. EARL S. MERRITT, WALTER C. AHLIN, ALLIED RESEARCH ASSOCIATES, INC., CONCORD, MASS. DEC. 1969. REPORT NO. NASA CR-109081 REPT-9G45-43. CONTRACT NO. NAS5-10343. STAR N70-21089. MICROFICHE COPY.
NR-52-00-000-00028	EARTH RESOURCES NATIONAL DATA PROCESSING CENTER - WHY, WHAT, WHEN, AND HOW MUCH. E. HART AND N. GUTLOVE, FAIRCHILD SPACE AND DEFENSE SYSTEMS, SYOSSET, LONG ISLAND, N.Y. PRESENTED AT THE AIAA EARTH RESOURCES OBSERVATIONS AND INFORMATION SYSTEM MEETING, ANNAPOLIS, MARYLAND, MARCH 1970. PAPER 70-324. A70-22863.

## **SECTION 53 - SKY LAB**

**SKY LAB**

<b>ACCESSION NUMBER</b>	<b>DESCRIPTION</b>
NR-53-00-000-00015	REMOTE SENSING OF EARTH RESOURCES FROM AN EARLY MANNED SPACE STATION. SOL ZWIRN, MC DONNELL DOUGLAS ASTRONAUTICS CO., HUNTINGTON BEACH, CALIF. PRESENTED AT THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS, ANNUAL TECHNICAL SYMPOSIUM AND EXHIBORAMA, 14TH, SAN FRANCISCO, CALIF., AUG. 1969. PUBLISHED IN PHOTO-OPTICAL INSTRUMENTATION APPLICATIONS AND THEORY, SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS PROCEEDINGS, VOL. 2, AUG. 1969. PP.175-187. CONTRACT NO. NAS8-21064. A70-23760.

## **PART V - ELECTRONIC DATA**

**SECTION 75 - CENTRAL METRIC DATA FILE**

## CENTRAL METRIC DATA FILE

ACCESSION NUMBER	DATE	DATA SOURCE	MEDIUM	REFL NO.	REMARKS
NR-75-EJ-220-01545	11 SEP 70	MISSION 141	ANALOG MAGT		SITE 220 FLT 2 START 17 00 STOP 18 38 AIRCRAFT RB 57F
NR-75-GJ-217-01546	14 SEP 70	MISSION 141	ANALOG MAGT	1 OF 1	SITE 217 FLT 3 START 16 01 45 STOP 19 52 00 AIRCRAFT RB 57F
NR-75-GJ-167-01547	19 SEP 70	MISSION 144	ANALOG MAGT	1 OF 1	SITE 167 FLT 1 START 13 01 00 STOP 16 20 00 AIRCRAFT RB 57F
NR-75-GJ-244-01548	22 SEP 70	MISSION 144	ANALOG MAGT	1 OF 2	SITE 244 FLT 2 START 10 01 00 STOP 16 31 26 AIRCRAFT RB 57F
NR-75-GJ-244-01549	22 SEP 70	MISSION 144	ANALOG MAGT	2 OF 2	SITE 244 FLT 2 START 16 31 20 STOP N/A AIRCRAFT RB 57F
NR-75-GJ-244-01550	23 SEP 70	MISSION 144	ANALOG MAGT	1 OF 2	SITE 244 FLT 3 START 10 01 00 STOP 16 13 30 AIRCRAFT RB 57F
NR-75-GJ-244-01551	23 SEP 70	MISSION 144	ANALOG MAGT	2 OF 2	SITE 244 FLT 3 START 16 13 30 STOP 17 25 00 AIRCRAFT RB 57F
NR-75-GJ-244-01552	24 SEP 70	MISSION 144	ANALOG MAGT	1 OF 2	SITE 244 FLT 4 START 10 06 00 STOP 16 06 42 AIRCRAFT RB 57F
NR-75-GJ-244-01553	24 SEP 70	MISSION 144	ANALOG MAGT		SITE 244 FLT 4 START 16 06 42 STOP 17 00 00 AIRCRAFT RB 57F
NR-75-GJ-244-01554	25 SEP 70	MISSION 144	ANALOG MAGT	1 OF 2	SITE 244 FLT 6 START 10 00 00 STOP 16 40 00 AIRCRAFT RB 57F
NR-75-GJ-244-01555	25 SEP 70	MISSION 144	ANALOG MAGT	2 OF 2	SITE 244 FLT 6 START 16 40 00 STOP 17 36 00 AIRCRAFT RB 57F
NR-75-EJ-029-01556	06 OCT 70	MISSION 145	ANALOG MAGT	1 OF 1	SITE 029 FLT 1 START 10 00 00 STOP 12 05 00 AIRCRAFT RB 57F
NR-75-00-000-01557	07 OCT 70	MISSION 145	ANALOG MAGT	1 OF 1	SITE LOCAL PCF 2 START 10 00 00 STOP 19 15 00 AIRCRAFT RB 57F